# SCHEMATIC DIAGRAM PARTS LIST P.C. BOARD

# **KENWOOD**

# PD110-3(D) PD110-5(D)

# **Constant-Voltage Current Power Supply**

MAIN CHASSIS (PD110-3) Y86-1320-61					
		REF.NO	PARTS NO	NAME & DESC	RIPTION
	00 1020 01		K01-0410-05	HANDLE	
DDD NO DADDO NO	WAME & DRAGRIDATON	1	K21-0877-13 K27-0528-14	K N O B K N O B	
REF. NO PARTS NO	NAME & DESCRIPTION		NO9-0623-04	SCREW	и 3 X 8
A01-1152-03	CASE		NO9-0626-04	SCREW	M 3X10
A10-1446-22	CHASSIS		NO9-0654-05	SCREW	n 4x8
A20-2794-05	PANEL (DIECAST)		NO9-0704-05	SCREW	11 4 4 0
A21-1081-03 B07-0713-04	DECORATIVE PANEL ESCUTCHEON		NO9-0711-05	SCREW	
B31-0730-05	METER		NO9-0723-05	SCREW	M 5X10
B40-2765-04	NAME PLATE (SERIAL NO)		NO9-0725-15	SCREW	M 4X12
B40-2885-03	NAME PLATE		N09-0732-05	SCREW	M 5X8
B41-0627-14	CAUTION LABEL (LINE VOL)		N14-0404-04	NUT	
B41-0792-04	CAUTION LABEL		N14-0620-05	NUT	
B50-7586-20	INSTRUCTION MANUAL		N19-0717-05	WASHER NONMETA	L AC310
E18-0363-05	INLET SOCKET		N19-0726-04	WASHER	
E20-0491-05	TERMINAL BLOCK 4P		N30-4016-41	SCREW, PAN HD	M 4X16
E20-1291-15	TERMINAL BLOCK 12P		N32-3006-41	SCREW, FLAT HD	
E21-0653-03	TERMINAL (BULE)		N33-4008-41	SCREW	M_2.6 X5
E21-0665-03	TERMINAL (GLAY)		N88-4012-41	SCREW, FLAT HD	TAPTITE
E21-0666-03	TERMINAL (RED)		N89-3008-41	SCREW, BINDING	TAP TITE
E23-0541-05	EARTH LUG		N89-3012-41	SCREW, BINDING	
E23-0542-05	EARTH LUG		N89-3014-41	SCREW, BINDING	
E29-0506-04	SHORTING BAR (PANEL)		N89-4014-41	SCREW, BINDING	
E29-0536-14	SHORTING BAR (CONTROL TERM.)		S51-1518-05	THERMAL SENSOR	
E29-0537-14	SHORTING BAR (REAR OUT PUT)		T40-0405-05	INDUCTION MOTO	
E30-1819-05	CEE CORD		X73-1690-01	AMPLIFIER UNIT	
E31-2783-05	LEAD WIRE WITH CONNECTOR		X77-1400-04	AMPLIFIER UNIT	
E33-4116-00	WIRE ASSY Heat Sink		X81-1850-04 X81-1980-11	CURRENT DIFECT CONSTANT.I UNI	
F01-0853-14 F01-0854-34	HEAT SINK		X81-1980-11 X81-2110-01 001-0501-05 212-1018-05 212-3017-05 C90-0966-05 C90-0968-05 C90-0961-05 C91-1243-05 C90-0961-05	RECTIFIER UNIT	
F04-5021-05	FUSE		001-2110-01	COATING WIRE	
F19-0712-05	CAP FOR DP-652		212-1018-05	TUBE (PLASTIC)	
F20-0657-25	INSULATOR		212-3017-05	TUBE (PLASTIC)	
H01-5825-14	CARTON BOX	C 0 0 1	090-0966-05	CAP. ELECTRO	2200 160V
H10-2823-12	FOAMED STYRENE PAD (F)	C 0 0 2	C90-0968-05	CAP. ELECTRO	100 160V
H10-2824-12	FOAMED STYRENE PAD (R)	C003	C90-0961-05	CAP. ELECTRO	660 20% 63V
H21-0806-04	PROTECTION SHEET (SET)	C004	C91-1243-05	CAP. CERAMIC	0.47 1 0% 250V
H21-0831-14	PROTECTION SHEET (AC CORD)	C005	C90-0961-05	CAP. ELECTRO	660 20% 63V
H25-0029-04	POLYETHYLENE BAG (FUSE)	6000	E31-2080-05	SPARK KILLER A	
J02-0049-14	LEG	C007	C91-1243-05	CAP. CERAMIC	0.47 1 0% 250V
J11-0504-05	CLAMPER				
J11-0507-05	CABLE CLAMP	C010	CE04W1E101M	CAP. ELECTRO	100 20% 25V
J13-0506-05	FUSE HOLDER	C011	CE04W1E101M	CAP. ELECTRO	100 20% 25V
J21-0392-04	HOLDER FOR OUTPUT LEAD		010000		
J21-2912-05	HOLDER FOR LED	D001		ROTARY SWITCH	0 P 0 V
J21-2948-04 J21-2949-04	BRACKET Bracket	0002	CR09G	THYRISTOR	UP UV
J21-2549-04 J21-4557-04	BRACKET (FOR TRANSISTOR)	D008	P21 2517 DE	LEAD WIRE WITH	CONNECIO P
J21-4551-04 J21-4558-04	BRACKET (FOR TRANSISTOR)		E31-2517-05 E31-2517-05	LEAD WIRE WITH	
J21-4559-14	BRACKET (FOR HEAT SINK)		E31-2517-05	LEAD WIRE WITH	
J21-4555-14 J21-4560-04	BRACKET (FOR HEAT SINK)		TNR15G431K	VARISTOR	OURREVIO II
J21-4561-04	BRACKET (FOR METER)	5011	************	TARISION	
J21-4301-04 J21-4570-23	BRACKET (FOR PCB)	P001	E31-2784-05	LEAD WIRE WITH	CONNECIO R
J32-0876-05	BOSS		E31-2784-05	LEAD WIRE WITH	
J61-0049-05	WIRE BAND		E31-2607-05	LEAD WIRE WITH	
J61-0525-05	WIRE WRAPPING BAND	P004		LEAD WIRE WITH	
J61-0526-05	BOARD SUPPORT		E31-2514-05	LEAD WIRE WITH	
101 0020 00					· · · · · · · · · · · · · · · ·

REF. NO	PARTS NO	NAME & DESCRIPTION
P009	E31-2514-05	LEAD WIRE WITH CONNCTOR
P010	E31-2517-05	LEAD WIRE WITH CONNECTOR
P011	E31-2517-05	LEAD WIRE WITH CONNECTOR
P012	E31-2518-05	LEAD WIRE WITH CONNECTOR
FULL	231-2316-03	DEAD WIRE WITH CONNECTOR
2000	PA1 0751 05	LEAD WIRE WITH CONNECTOR
P309	E31-2751-05	LEAD WIKE WIIN CONNECTOR
R 0 1 4	R92-1187-05	RES. FIXED
R 0 2 0	R92-1176-05	RES. FIXED
	11.0 00	
R 0 5 1	RN14BK2E9103F	RES. METAL FILM 910K 1% 1/4W
		RES. METAL FILM 910K 1% 1/4W
R 0 5 2	RN14BK2E9103F	RES. HEIRL FILM SIGN IN 174"
S 0 0 1	S59-1502-05	SWITCH (CIRCUIT PROTECTOR)
T001	L01-9656-05	POWER TRANSFORMER
T002	L15-0412-05	INDUCTOR
V R O O 1	R29-0505-05	V.R. 10K
VR002		V.R. 500 B
VRUUZ	K 0 2 - 2 2 1 1 - 0 2	4. R. 500 B

#### MAIN CHASSIS (PD110-3D)

#### Y86-1330-61

		100 1000 01
	24222 22	NAME & DECORIDEION
EF.NO	PARTS NO	NAME & DESCRIPTION CASE
	A01-1152-03 A10-1446-22	CHASSIS
	A20-2794-05	PANEL (DIECAST)
	A21-1088-03	DECORATIVE PANEL
	B07-0713-04	ESCUTCHEON
	B19-0738-13	FILTER
	B40-2765-04	NAME PLATE (SERIAL NO)
	B40-2887-03	NAME PLATE
	B41-0627-14	CAUTION LABEL (LINE VOL)
	B41-0792-04	CAUTION LABEL
	B50-7586-20	INSTRUCTION MANUAL
	E18-0363-05	INLET SOCKET
	E20-0491-05	TERMINAL BLOCK 4P Terminal block 12P
	E20-1291-15 E21-0653-03	TERMINAL (BULE)
	E21-0665-03	TERMINAL (GLAY)
	E21-0666-03	TERMINAL (RED)
	E23-0541-05	EARTH LUG
	E23-0542-05	EARTH LUG
	E29-0506-04	SHORTING BAR (PANEL)
	E29-0536-14	SHORTING BAR (CONTROL TERM.)
	E29-0537-14	SHORTING BAR (REAR OUT PUT)
	E30-1819-05	CEE CORD
	E31-2783-05	LEAD WIRE WITH CONNECTOR
	E33-4116-00	WIRE ASSY Heat Sink
	F01-0853-14 F01-0854-34	HEAT SINK
	F04-5021-05	FUSE
	F07-0928-05	COVER
	F19-0712-05	CAP FOR DP-652
	F20-0647-05	INSULATOR
	F20-0657-25	INSULATOR
	H01-5827-14	CARTON BOX
	H10-2823-12	FOAMED STYRENE PAD (F)
	H10-2824-12	FOAMED STYRENE PAD (R)
	H21-0806-04	PROTECTION SHEET (SET)
	H21-0831-14	PROTECTION SHEET (AC CORD)
	H25-0029-04	POLYETHYLENE BAG (FUSE)
	J02-0049-14 J11-0504-05	LEG Clamper
	J11-0507-05	
	J13-0506-05	
	J19-1620-05	
	J21-0392-04	
	J21-2912-05	
	J21-2948-04	BRACKET
	J21-2949-04	
	J21-4513-03	
	J21-4557-04	
	J21-4558-04	
	J21-4559-14	
	J21-4560-04	
	J21-4570-23	
	122_0276_05	
	J32-0876-05	
	J32-0876-05 J61-0049-05 J61-0525-05	WIRE BAND

```
REF. NO PARTS NO
                                  NAME & DESCRIPTION
                              HANDLE
         K01-0410-05
         K21-0877-13
K27-0528-14
                              KNOB
KNOB
                              SCREW
                                                     M 3 X 8
         NO9-0623-04
                               SCREW
                                                     M 3X10
         NO9-0654-05
                               SCREW
                                                     M 4XR
         N09-0704-05
                              SCREW
                              SCREW
         N09-0711-05
         N09-0723-05
                               SCREW
                                                    M 5 X 1 0
         N09-0725-15
                              SCREW
                                                     M 4X12
         NO9-0732-05
                              SCREW
                                                     M 5 X 8
         N14-0620-05
                              NIT
         N19-0191-05
                              WASHER NONMETAL
         N19-0717-05
                              WASHER NONMETAL AC310
         N19-0726-04
                              WASHER
                              SCREW, FLAT HD M 3X6
SCREW, FLAT HD M 3X8
        N32-3006-41
         N32-3008-41
                              SCREW M 2.6X5
SCREW, PLAT HD TAP TITE
SCREW, BINDING TAP TITE
SCREW, BINDING TAP TITE
        N33-4008-41
N88-4012-41
         N89-3008-41
         N89-3012-41
                              SCREW, BINDING TAP TITE
SCREW, BINDING TAP TITE
THERMAL SENSOR
INDUCTION MOTOR
AMPLIFIER UNIT
        N89-3014-41
        N89-4014-41
         $51-1518-05
         T40-0405-05
        X73-1700-01
         X76-1260-11
                              DIGITAL PANEL METER UNIT
                              AMPLIFIER UNIT
                              CURRENT DIFECTER UNIT
         X81-1850-05
         X81-1980-11
         X81-2110-01
                              RECTIFIER UNIT
                              COATING WIRE
TUBE (PLASTIC)
TUBE (PLASTIC)
         001-0501-05
        212-1018-05
212-3017-05
 C001
         C90-0966-05
                              CAP. ELECTRO
                                                     2200
                                                                    160 V
                              CAP. ELECTRO
CAP. ELECTRO
CAP. CERAMIC
                                                                    160 V
C002
C003
        C90-0968-05
                                                     100
        C90-0961-05
                                                     660
                                                             20%
                                                                    63V
                                                             10% 250V
        C91-1243-05
                                                    0.47
 C 0 0 4
                              CAP. ELECTRO
SPARK KILLER A'
                                                                    63 V
 C005
         C90-0961-05
                                                             20%
        E31-2686-05
                                                   SSY
 C006
 C007
        C91-1243-05
                              CAP. CERAMIC
                                                     0.47
                                                             10% 250V
                              CAP. ELECTRO
CAP. ELECTRO
        CE04W1E101M
 C 0 1 0
        CE04W1E101M
                                                     100
                                                             20%
                                                                    25 V
                              LEAD WIRE WITH CONNECTOR
DO01 E31-2518-05
 0001
        S10VB60
                              ROTARY SWITCH
                                                                    0 V
                              THYRISTOR
D 0 0 2
        CR09G
                              LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR
 0008
        E31-2517-05
        E31-2517-05
D009
 D 0 1 0
        TNR15G431K
                              VARISTOR
 P001
        E31-2784-05
                              LEAD WIRE WITH CONNECTOR
        E31-2784-05
                              LEAD WIRE WITH CONNECTOR
 P002
 P 0 0 5
        R31-2514-05
                              LEAD WIRE WITH CONNCTOR
                              LEAD WIRE WITH CONNCTOR
LEAD WIRE WITH CONNECTOR
LEAD WIRE WITH CONNECTOR
LEAD WIRE WITH CONNECTOR
        E31-2514-05
E31-2517-05
 P009
 P010
         E31-2517-05
 P 0 1 1
 P012
        E31-2518-05
                              LEAD WIRE A'SSY IC, TRANSFORMER
LEAD WIRE A'SSY IC, TRANSFORMER
LEAD WIRE A'SSY IC, TRANSFORMER
 P 2 0 1
        E31-2519-05
 P202
         E31-2519-05
 P203
        E31-2519-05
 P204
          NO USE
        E31-2756-05
                              LEAD WIRE WITH CONNECTOR
 P205
                              LEAD WIRE WITH CONNECTOR
 P309 E31-2751-05
 R014 R92-1187-05
                              RES. FIXED
 R020 R92-1176-05
                              RES. FIXED
 R051 RN14BK2E9103F
R052 RN14BK2E9103F
                              RES. METAL FILM 910K 1% 1/4W
RES. METAL FILM 910K 1% 1/4W
                               SWITCH (CIRCUIT PROTECTOR)
 S001 S59-1502-05
 T 0 0 1
        1.01-9656-05
                              POWER TRANSFORMER
 T002 L15-0412-05
                              INDUCTOR
```

REF.NO	PARTS NO	NAME & DI	
U203	UPC7805H	IC, VOLTAGE	
U204	UPC7805H	IC, VOLTAGE	
	R29-0505-05	V.R.	10K
	R05-3511-05	V.R.	500 B

#### **MAIN CHASSIS (PD110-5)**

#### Y86-1300-61

```
NAME & DESCRIPTION
REF. NO
            PARTS NO
           A01-1164-13
                                     CASE
           A10-1448-12
                                     CHASSIS
                                     PANEL (DIECAST)
           A20-2794-05
           A21-1081-03
                                     DECORATIVE PANEL
           B07-0713-04
                                     ESCUTCHEON
           B31-0734-05
                                     METER
                                     NAME PLATE (SERIAL NO)
NAME PLATE
           B40-2765-04
           B40-2881-03
                                     CAUTION LABEL (LINE VOL)
CAUTION LABEL (FUSE)
INSTRUCTION MANUAL
            B41-0627-14
           B41-0791-04
           B50-7586-20
                                     INLET SOCKET
TERMINAL BLOCK
TERMINAL BLOCK
TERMINAL (BULE)
            E18-0363-05
           E20-0491-05
           E20-1291-15
                                                               12P
           E21-0653-03
                                     TERMINAL (GLAY)
TERMINAL (RED)
            E21-0665-03
           E21-0666-03
                                     EARTH LUG
EARTH LUG
            E23-0541-05
            E23-0542-05
                                     SHORTING BAR (PANEL)
SHORTING BAR (CONTROL TERM.)
SHORTING BAR (RBAR OUT PUT)
           E29-0506-04
           E29-0536-14
E29-0537-14
           E30-1819-05
E31-2780-05
                                     CEE CORD
                                     LEAD WIRE WITH CONNECTOR WIRE ASSY
            E33-4116-00
                                     HEAT SINK
HEAT SINK
FUSE (8A)
CAP FOR DP-652
INSULATOR
           F01-0853-14
F01-0854-34
            F06-8023-05
           F19-0712-05
F20-0625-04
            F20-0657-25
                                      INSULATOR
                                     CARTON BOX
FOAMED STYRENE PAD (F)
FOAMED STYRENE PAD (R)
            H01-5821-14
            H10-2823-12
            H10-2824-12
                                     PROTECTION SHEET (SET)
PROTECTION SHEET (AC CORD)
POLYETHYLENE BAG (FUSE)
           H21-0806-04
H21-0831-14
            H25-0029-04
            J02-0049-14
                                     LEG
CLAMPER
CABLE CLAMP
FUSE HOLDER
HOLDER FOR OUTPUT LEAD
HOLDER FOR LED
           J11-0504-05
J11-0507-05
            J13-0506-05
            J21-0392-04
            J21-0392-04
J21-2912-05
J21-2948-04
                                      BRACKET
                                     BRACKET
BRACKET (FOR TRANSISTOR)
BRACKET (FOR TRANSISTOR)
BRACKET (FOR HEAT SINK)
BRACKET (FOR HEAT SINK)
            J21-2949-04
J21-4557-04
            J21-4558-04
            J21-4559-14
J21-4560-04
                                     BRACKET (FOR METER)
BRACKET (FOR PCB)
            J21-4561-04
            J21-4570-23
J32-0876-05
                                      BOSS
            J32-0877-05
                                      BOSS
            J61-0049-05
J61-0525-05
                                     WIRE BAND
WIRE WRAPPING BAND
            J61-0526-05
                                      BOARD SUPPORT
            K01-0409-05
K21-0877-03
                                      HANDLE
                                      KNOB.
            K27-0528-14
N09-0623-04
                                     KNOB
SCREW
                                                                и зхв
            NO9-0626-04
                                      SCREW
                                                                M 3X10
             N 0 9 - 0 6 5 4 - 0 5
                                      SCREW
                                                                M 4 X 8
            N09-0704-05
N09-0711-05
                                      SCREW
                                      SCREW
             NO9-0723-05
                                      SCREW
                                                                M 5 X 1 0
            N09-0725-15
                                      SCREW
                                                                M 4X12
M 5X8
            NO9-0732-05
                                      SCREW
            N14-0404-04
                                      NUT
             N14-0620-05
                                      NUT
            N19-0717-05
N19-0726-04
                                      WASHER NONMETAL AC310
                                      WASHER
                                      SCREW, PAN HD
                                      SCREW, FLAT HD M 3X6
            N32-3006-41
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NAME & DESCRIPTION
REF.NO PARTS NO
N33-4008-41
                              SCREW M 2.6X5
SCREW, FLAT HD TAP TITE
         N88-4012-41
                              SCREW, BINDING TAP TITE
SCREW, BINDING TAP TITE
         N89-3008-41
         N89-3012-41
                              SCREW, BINDING TAP TITE
SCREW, BINDING TAP TITE
THERMAL SENSOR
         N89-3014-41
         N89-4014-41
         $51-1518-05
         T40-0405-05
                              INDUCTION MOTOR
        X73-1690-01
X77-1400-04
                              AMPLIFIER UNIT
                              CURRENT DIFECTER UNIT
CONSTANT.I UNIT
RECTIFIER UNIT
         X81-1850-02
         X81-1980-09
         X81-2110-00
                              COATING WIRE
TUBE (PLASTIC)
TUBE (PLASTIC)
         001-0501-05
        212-1018-05
212-3017-05
        C90-0963-05
                              CAP. ELECTRO
                                                   3300
                                                                  160 V
 C001
                              CAP. ELECTRO
CAP. ELECTRO
CAP. CERAMIC
         C90-0968-05
                                                   100
                                                                  160 V
 C002
                                                           20% 63V
 C003
        C90-0961-05
                                                   660
                                                   0.47
                                                            10% 250V
        C91-1243-05
 C004
 C005
        C90-0961-05
                              CAP. ELECTRO
                                                   660
                                                            20%
                                                                  63 V
 C006
        E31-2686-05
                              SPARK KILLER A'
                                                  SSY
                                                   0.47
                                                            10% 250V
 CAA7
        C91-1243-05
                              CAP. CERAMIC
                                                            20%
 C010
        CB04W1B101M
                              CAP. ELECTRO
                                                   100
                                                                  2.5 V
                                                            20%
                                                                  25 V
 COLL CED4WIELDIM
                              CAP. ELECTRO
                                                   100
 D001
         S10VB60
                              ROTARY SWITCH
                                                   ΠP
 D 0 0 2
        CRUSE
                              THYRISTOR
                              LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR
 D008
 D009
        E31-2517-05
E31-2518-05
 D010
        TNR15G431K
                              VARISTOR
                              LEAD WIRE WITH CONNECTOR
                              LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR
        E31-2781-05
        E31-2607-05
 P003
        E31-2606-05
 P004
        E31-2514-05
                              LEAD WIRE WITH CONNCTOR
                              LEAD WIRE WITH CONNCTOR
 P009
        E31-2514-05
                              LEAD WIRE WITH CONNECTOR
 P010
                              LEAD WIRE WITH CONNECTOR
LEAD WIRE WITH CONNECTOR
 P011
        E31-2517-05
 P012
       E31-2518-05
 P309
        E31-2751-05
                              LEAD WIRE WITH CONNECTOR
                              RRS. FIXED
 R014 R92-1187-05
                              RES. FIXED
 R 0 2 0
        R92-1176-05
                              RES. METAL FILM 910K 1% 1/4W
RES. METAL FILM 910K 1% 1/4W
         RN14BK2E9103F
 R 0 5 1
 R052
         RN14BK2E9103F
                              SWITCH (CIRCUIT PROTECTOR)
 $001 $59-1502-05
                              POWER TRANSFORMER
 T001
        L01-9646-05
 T002 L15-0411-05
                              INDUCTOR
                                                    10K
 VR001 R29-0505-05
 VR002 R05-3511-05
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#### **MAIN CHASSIS (PD110-5D)**

## Y86-1310-61

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NAME & DESCRIPTION
REF. NO PARTS NO
         A01-1164-13
                              CASE
                               CHASSIS
         A10-1448-12
                              PANEL (DIECAST)
DECORATIVE PANEL
         A20-2794-05
         A21-1088-03
         B07-0713-04
                               ESCUTCHEON
         R19-0738-13
                               FILTER
                              NAME PLATE (SERIAL NO)
NAME PLATE
         B40-2765-04
         B40-2883-03
                              CAUTION LABEL (LINE VOL)
CAUTION LABEL (FUSE)
         B41-0627-14
         B41-0791-04
         B50-7586-20
                               INSTRUCTION MANUAL
                              INLET SOCKET
TERMINAL BLOCK
TERMINAL BLOCK
         E18-0363-05
         E20-0491-05
         E20-1291-15
                              TERMINAL (BULE)
TERMINAL (GLAY)
TERMINAL (RED)
         E21-0653-03
         E21-0665-03
         E21-0666-03
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REF. NO	PARTS NO E23-0541-05	NAME & DESCRIPTION
	E23-0541-05 E23-0542-05	BARTH LUG Barth Lug
	E29-0506-04	SHORTING BAR (PANEL)
	E29-0536-14	SHORTING BAR (CONTROL TERM.)
	E29-0537-14	SHORTING BAR (REAR OUT PUT)
	E30-1819-05	CEE CORD
	E31-2780-05	LEAD WIRE WITH CONNECTOR
	E33-4116-00	WIRE ASSY
	F01-0853-14 F01-0854-34	HEAT SINK Heat Sink
	F06-8023-05	FUSE (8A)
	F07-0928-05	COVER
	F19-0712-05	CAP FOR DP-652
	F20-0625-04	INSULATOR
	F20-0647-05	INSULATOR
	F20-0657-25	INSULATOR
	H01-5823-14	CARTON BOX
	H10-2823-12	FOAMED STYRENE PAD (F)
	H10-2824-12 H21-0806-04	FOAMED STYRENE PAD (R) PROTECTION SHEET (SET)
	H21-0831-14	PROTECTION SHEET (AC CORD)
	H25-0029-04	POLYETHYLENE BAG (FUSE)
	J02-0049-14	LEG
	J11-0504-05	CLAMPER
	J11-0507-05	CABLE CLAMP
	J13-0506-05	FUSE HOLDER
	J19-1620-05	CORD CLAMP
	J21-0392-04 J21-2912-05	HOLDER FOR OUTPUT LEAD HOLDER FOR LED
	J21-2912-05 J21-2948-04	BRACKET
	J21-2949-04	BRACKET
	J21-4513-03	BRACKET FOR PCB
	J21-4557-04	BRACKET (FOR TRANSISTOR)
	J21-4558-04	BRACKET (FOR TRANSISTOR)
	J21-4559-14	BRACKET (FOR HEAT SINK)
	J21-4560-04 J21-4570-23	BRACKET (FOR HEAT SINK) BRACKET (FOR PCB)
	J32-0876-05	BOSS
	J32-0877-05	BOSS
	J61-0049-05	WIRE BAND
	J61-0525-05	WIRE WRAPPING BAND
	J61-0526-05	BOARD SUPPORT
	KO1-0409-05	HANDLE
	K21-0877-13	KNOB
	K27-0528-14	KNOB
	NO9-0623-04 NO9-0626-04	SCREW M 3X8
	NO9-0654-05	SCREW M 3X10 SCREW M 4X8
	NO9-0704-05	SCREW
	N09-0711-05	SCREW
	NO9-0723-05	SCREW M 5X10
	NO9-0725-15	SCREW M 4X12
	NO9-0732-05	SCREW M 5X8
	N14-0404-04	NUT
	N14-0620-05 N19-0191-05	NUT Washer Nonmetal
	N19-0191-05	WASHER NONMETAL AC310
	N19-0726-04	WASHER
	N32-3006-41	SCREW, FLAT HD M 3X6
	N32-3008-41	SCREW, FLAT HD M 3X8
	N33-4008-41	SCREW M 2.6X5
	N88-4012-41	SCREW, FLAT HD TAP TITE SCREW, BINDING TAP TITE
	N89-3008-41 N89-3012-41	SCREW, BINDING TAP TITE SCREW, BINDING TAP TITE
	N89-3012-41	SCREW, BINDING TAP TITE
	N89-4014-41	SCREW, BINDING TAP TITE
	\$51-1518-05	THERMAL SENSOR
	140-0405-05	INDUCTION MOTOR
	X73-1700-01	AMPLIFIER UNIT
	X76-1260-09	DIGITAL PANEL METER UNIT
	X77-1400-04 X81-1850-03	AMPLIFIER UNIT
	X81-1850-03 X81-1980-09	CURRENT DIFECTER UNIT
	X81-1900-09 X81-2110-00	RECTIFIER UNIT
	001-0501-05	COATING WIRE
	212-1018-05	TUBE (PLASTIC)
	212-3017-05	TUBE (PLASTIC)
C001	C90-0963-05	CAP. ELECTRO 3300 160V
C002	C90-0968-05	CAP, BLECTRO 100 160V
C003 C004	C90-0961-05	CAP. ELECTRO 660 20% 63V
C004	C91-1243-05 C90-0961-05	CAP. CERAMIC
C006	E31-2686-05	SPARK KILLER A'SSY
C007	C91-1243-05	CAP. CERAMIC 0.47 10% 250V
001-		
C 0 1 0	CR04W1R101M	CAD RIPCTRO 100 204 254

REF.NO C011	PARTS NO CE04W1E101M	NAME & DESCRIPTION CAP. ELECTRO 100 20%	25 V
D 0 0 1 D 0 0 2	S10 V B 6 0 CR09 G	ROTARY SWITCH THYRISTOR OP	0 V
D008 D009 D010 D011	E31-2517-05 E31-2517-05 E31-2518-05 TNR15G431K	LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR VARISTOR	
P 0 0 1 P 0 0 2	E31-2781-05 E31-2781-05	LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR	
P010	E31-2514-05 E31-2517-05	LEAD WIRE WITH CONNCTOR LEAD WIRE WITH CONNCTOR LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR	
P 2 0 1	E31-2519-05	LEAD WIRE A'SSY IC, TRANSFOR	MER
P201 P202 P203 P204	NO USE	LEAD WIRE A'SSY IC, TRANSFOR	
P205	E31-2782-05	LEAD WIRE WITH CONNECTOR	
P309	E31-2751-05	LEAD WIRE WITH CONNECTOR	
R 0 1 4 R 0 2 0	R92-1187-05 R92-1176-05	RES. FIXED	
R 0 5 1 R 0 5 2	RN14BK2E9103F RN14BK2E9103F		/4W /4W
S 0 0 1	S 5 9 - 1 5 0 2 - 0 5	SWITCH (CIRCUIT PROTECTOR)	
T001 T002	L01-9646-05 L15-0411-05	POWER TRANSFORMER INDUCTOR	
U 2 0 3 U 2 0 4	UPC7805H UPC7805H	IC. VOLTAGE REGULATOR IC. VOLTAGE REGULATOR	
VR001 VR002	R29-0505-05 R05-3511-05	V.R. 10K V.R. 500 B	

AMPLIFIER UNIT (P	PD110-3/5)	REF.NO PARTS NO R004 R92-1161-05	NAME & DESCE RES. CARBON	RIPTION 5% 1/4W	
X7	73-1690-01	R005 RD14DB2H512J	RES. CARBON	5.1K 5% 1/2W	
RBF.NO PARTS NO B23-0047-04	NAME & DESCRIPTION TERMINAL	R006 RD14BB2C102J D009 RD13F(B2) D010 MTZ9.1JC	RES. CARBON DIODE ZENER DIODE ZENER	1K 5% 1/6W 13V 9V	
F01-0846-05 F01-0856-14	HEAT SINK Heat Sink	D011 1SS132 D012 MTZ4.7JA	DIODE DIODE ZENER	4.5V	
J25-5159-12	PCB (UNMOUNTED)	D013 1SS132 D014 1SZ59(T)	DIODE DIODE ZENER	6.25 V	
N 0 9 - 0 6 2 3 - 0 4 2 1 2 - 1 0 1 8 - 0 5	SCREW M 3X8 TUBE (PLASTIC)	D015 1SZ59(T)	DIODE ZENER	6.25 V	
212-2010-05 C001 CF92V1H473J	TUBE (PLASTIC) CAP. POLYESTER 0.047 5% 50V	D016 188132 D017 188132	DIODE		
C002 CF92V1H473J	CAP. POLYESTER 0.047 5% 50V	D018 1SS132 D019 1SS132	DIODE		
COO3 C90-0924-05 COO4 CEO4W1E100M	CAP. BLECTRO 330 50V CAP. BLECTRO 10 20% 25V	D020 188132	DIODE		
C005 CE04DW1E221M C006 C90-0939-05	CAP. BLECTRO 220 20% 25V CAP. BLECTRO 470 35V	D021 188132 D022 188132	DIODE DIODE		
C007 CE04W1E100M	CAP. ELECTRO 10 20% 25V	D023 1SS132 D024 1SS132	DIODE		
C008 CE04W1E100M C009 CE04DW1E221M	CAP. ELECTRO 10 20% 25V CAP. ELECTRO 220 20% 25V	D025 188132 D026 188132	DIODE DIODE		
CO10 C90-0924-05 CO11 CE04W1E101M	CAP. BLECTRO 330 50V CAP. BLECTRO 100 20% 25V	D027 1SS132	DIODE		
CO12 CEO4W1HR33M	CAP. ELECTRO 0.33 20% 50V	D028 MTZ5.1JB D029 1SS132	DIODE, ZENER DIODE	5 V	
CO13 CEO4W1H4R7M CO14 CEO4W1E100M	CAP. BLECTRO 4.7 20% 50V CAP. BLECTRO 1:0 20% 25V	D030 MTZ5.1JB D031 DSA1A2	DIODE, ZENER DIODE	5 V	
CO15 CEO4AW1HO1OM CO16 CC45CH1H1O1J	CAP. BLECTRO 1 20% 50V CAP. CERAMIC 100P 5% 50V	D032 DSA1A2	DIODE		
CO17 CEO4AW1HO1OM	CAP. ELECTRO 1 20% 50V	D040 S1VB20	DIODE		
CO18 CC45CH1H1O1J CO19 C90-0967-05	CAP. CERAMIC 100P 5% 50V CAP. BLECTRO 0.39 160V	D041 S1VB20 D042 DSA1A2	DIODE DIODE		
CO2O CQ92P2A102J CO21 NO USE	CAP. MYLAR 1000P 5% 100	DO43 DSA1A2	DIODE		
CO22 CQ92P2A332J CO23 NO USE	CAP. MYLAR 3300P 5% 100	D044 DSA1A2 D045 DSA1A2	DIODE		
C024 CF92V1H332J	CAP. POLYESTER 3300P 5% 50V	D046 MTZ6.2JB D047 1SS132	DIODE ZENER DIODE	6.1V	
CO28 CC45CH1H1O1J CO29 NO USE	CAP. CERAMIC 100P 5% 50V	D048 1SS132 D049 1SS132	DIODE DIODE		
CO3O CC45CH1H1O1J CO31 CF92V1H1O3J	CAP. CERAMIC 100P 5% 50V CAP. POLYESTER 0.01 5% 50V	D050 188132 D051 RD10F(B2)	DIODE DIODE ZENER	10 V	
C032 CC45CH1H101J	CAP. CERANIC 100P 5% 50V	D052 RD10F(B2) D053 188132	DIODE ZENER DIODE	10V	
C033 CF92V1H103J C034 CF92V1H103J	CAP. POLYESTER 0.01 5% 50V CAP. POLYESTER 0.01 5% 50V	D054 1SS132 D055 1SS132	DIODE		
C035 CF92V1H103J C036 CF92V1H473J	CAP. POLYESTER 0.01 5% 50V CAP. POLYESTER 0.047 5% 50V	D056 1SS132	DIODE		
C037 CF92V1H103J	CAP. POLYESTER 0.01 5% 50V	D057 188132 D058 188132	DIODE DIODE		
CO38 CF92V1H473J CO39 CF92V1H473J	CAP. POLYESTER 0.047 5% 50V CAP. POLYESTER 0.047 5% 50V	D059 MTZ8.2JC D060 1SS132	DIODE ZENER DIODE	9.6V	
CO4O CF92V1H473J CO41 CF92V1H473J	CAP. POLYESTER 0.047 5% 50V CAP. POLYESTER 0.047 5% 50V	D061 1SS132	DIODE		
C042 CC45CH1H101J C043 CC45CH1H101J	CAP. CERAMIC 100P 5% 50V CAP. CERAMIC 100P 5% 50V	D062 1SS132 D063 1SS132	DIODE		
C044 CF92V1H472J C045 CF92V1H472J	CAP. POLYESTER 4700P 5% 50V CAP. POLYESTER 4700P 5% 50V	D064 1SS132 D065 1SS132	DIODE		
CO50 CF92V1H473J CO51 CF92V1H473J	CAP. POLYESTER 0.047 5% 50V CAP. POLYESTER 0.047 5% 50V	P003 E40-0273-05 P004 E40-0273-05	PIN CONNECTOR PIN CONNECTOR	2 P 2 P	
C052 C90-0924-05 C053 CF92V1H103J	CAP. BLECTRO 330 50V CAP. POLYESTER 0.01 5% 50V	P206 B40-0273-05	PIN CONNECTOR	2 P	
C054 CF92V1H103J C055 CE04W1E100M	CAP. POLYESTER 0.01 5% 50V CAP. BLECTRO 10 20% 25V	Q001 2SD1406(Y) Q002 2SC2785(F)	TR, SI, NPN TR. SI, NPN		
C056 C90-0924-05 C057 CF92V1H103J	CAP. ELECTRO 330 50V CAP. POLYESTER 0.01 5% 50V	Q003 2SC2785(F)	TR. SI, NPN		
CO58 CF92V1H1O3J CO59 CEO4W1E1OON	CAP. POLYESTER 0.01 5% 50V	Q004 2SA1021(0) Q005 2SB1015(Y)	TR. SI, PNP TR. SI, PNP		
C060 CF92V1H103J	CAP. POLYESTER 0.01 5% 50V	Q006 2SA1175(F) Q007 2SA1175(F)	TR. SI, PNP TR. SI, PNP		
C061 CC45CH1H470J C062 C91-0595-05	CAP. CERAMIC 47P 5% 50V CAP. POLYESTER 0.033 2% 50V	Q008 2SC2481(0)	TR. SI, NPN	•	
C063 CC45CH1H101J C064 CF92V1H102J	CAP. CERAMIC 100P 5% 50V CAP. POLYESTER 1000P 5% 50V	Q009 2SC3064(F) Q010 2SC2785(F)	TR. SI, NPN TR. SI, NPN		
C065 CF92V1H103J	CAP. POLYESTER 0.01 5% 50V	Q011 2SC2785(F) Q012 2SC2459(GR)	TR. SI, NPN TR. SI, NPN		
C066 CF92V1H472J C067 CE04W1E100M	CAP. POLYESTER 4700P 5% 50V CAP. ELECTRO 10 20% 25V	Q013 2SC2481(0)	TR. SI, NPN		
C068 CF92V1H103J C069 CF92V1H473J	CAP. POLYESTER 0.01 5% 50V CAP. POLYESTER 0.047 5% 50V	Q015 2SK170(BL)	PET, N-CHANNEL PET, N-CHANNEL		
C073 CF92V1H224J	CAP. POLYESTER 0.22 5% 50V	Q016 2SK170(BL) Q017 2SK170(BL)	FET, N-CHANNEL FET, N-CHANNEL		
CO74 CC45CH1H101J	CAP. CERAMIC 100P 5% 50V	9020 2SK170(BL)	FET, N-CHANNEL		
CO75 CEO4W1E100M CO76 CEO4W1C471M	CAP. ELECTRO 10 20% 25V CAP. ELECTRO 470 20% 16V	Q021 2SC2785(F)	TR. SI, NPN		
D001 S1VB20	DIODE	Q022 2SC2481(0)	TR. SI, NPN		
D002 S1VB20 D003 DSA1A2	DIODE DIODE	R001 RD14BB2C101J R002 RD14BB2C101J	RES. CARBON RES. CARBON	100 5% 1/6W 100 5% 1/6W	
D004 DSA1A2	DIODB	R003 RD14DB3D471J	RES. CARBON	470 55 2W	

		•			
REF. NO	PARTS NO	NAME & DESCRIPTION	1	REF.NO PARTS NO	NAME & DESCRIPTION
D005	NO USE	•		R090 RD14BB2C333J	RES. CARBON 33K 5% 1/6W
D006	RD13F(B2)	DIODE ZENER 13V		RO91 NO USE	
D007	MTZ9.1JC	DIODE ZENER 9V		R092 RD14BB2C153J	RES. CARBON 15K 5% 1/6W
D008	188132	DIODE		R093 RD14BB2C473J	RES. CARBON 47K 5% 1/6W
R 0 0 7	RD14DB2H2R7J	RES. CARBON 2.7	5% 1/2W	R094 RD14BB2C473J	RES. CARBON 47K 5% 1/6W RES. CARBON 470 5% 1/6W
R008	RD14BB2C153J	RES. CARBON 15K	5% 1/6W	R095 RD14BB2C471J	RES. CARBON 470 5% 1/6W
R009	R92-1144-05	RES. MRTAL FILM 7.5K	1% 1/5W	R098 R92-1061-05	JUMPING RES. ZERO OHM
R010	R92-1144-05	RES. MRTAL FILM 7.5K RES. CARBON 470	1% 1/5W 5% 2W	R098 R92-1061-05 R099 NO USE	JUNITAG RES. BERG ONL
R 0 1 1 R 0 1 2	RD14DB3D471J R92-1161-05	RES. CARBON 470 RES. CARBON 560	5% 1/4W	R100 RD14BB2C101J	RES. CARBON 100 5% 1/6W
R012	RD14DB2H512J	RES. CARBON 5.1K	5% 1/2W	R101 RD14BB2C101J	RES. CARBON 100 5% 1/6W
R014	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	R102 RD14DB2H392J	RES. CARBON 3.9K 5% 1/2W
R 0 1 5	RD14DB2H2R7J	RES. CARBON 2.7	5% 1/2W	R103 RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R 0 1 6	RD14BB2C153J	RES. CARBON 15K	5% 1/6W	R104 RD14BB2C153J	RES. CARBON 15K 5% 1/6W
R 0 1 7	RD14BB2C682J	RES. CARBON 6.8K	5% 1/6W	R105 RD14BB2C123J	RES. CARBON 12K 5% 1/6W
R 0 1 8	R92-1138-05	RES. METAL FILM 360	1% 1/5W	R106 RD14BB2C332J	RES. CARBON 3.3K 5% 1/6W
R019	R92-1131-05	RES. MRTAL FILM 430	1% 1/5W	R107 RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R 0 2 0	R92-1139-05	RES. METAL FILM 3.09K		R108 R92-1152-05	RES. METAL FILM 470K 1% 1/5W
R 0 2 1	R92-1140-05	RES. METAL FILM 4.3K	1% 1/5W	R109 RD14BB2C104J	RES. CARBON 100K 5% 1/6W RES. CARBON 2.2K 5% 1/6W
R 0 2 4	RD14BB2C153J	RES. CARBON 15K	5% 1/6W	R110 RD14BB2C222J	RES. CARBON 2.2K 5% 1/6W RES. METAL FILM 22K 1% 1/5W
R 0 2 5	RD14BB2C153J	RES. CARBON 15K	5% 1/6W	R111 R92-1149-05 R112 RD14BB2C682J	RES. CARBON 6.8K 5% 1/6W
R 0 2 6	RD14BB2C243J	RES. CARBON 24K	5% 1/6W	R112 RD148B2C0823	RES. METAL FILM 330K 1% 1/5W
R 0 2 7	RD14BB2C121J	RES. CARBON 120	5% 1/6W	R114 RD14BB2C470J	RES. CARBON 47 5% 1/6W
R 0 2 8	RD14BB2C182J	RES. CARBON 1.8K	5% 1/6W	R115 RD14BB2C104J	RES. CARBON 100K 5% 1/6W
R029	RD14BB2C181J	RES. CARBON 180	5% 1/6W	R116 RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R 0 3 0	RN14BE2E5101D	RES. METAL FILM 5.1K	0.5%1/4W	R117 RD14BB2C224J	RES. CARBON 220K 5% 1/6W
R 0 3 1	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	R118 RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R 0 3 2	R92-1150-05	RES. METAL FILM 100K	1% 1/5W	R119 RD14BB2C122J	RES. CARBON 1.2K 5% 1/6W
R 0 3 3	R92-1138-05	RES. METAL FILM 360	1% 1/5W	R120 RD14DB3D472J	RES. CARBON 4.7K 5% 2W RES. CARBON 100K 5% 1/6W
R 0 3 4	RD14BB2C151J	RES. CARBON 150	5% 1/6W	R121 RD14BB2C104J	
R035	R92-1146-05	RES. METAL FILM 11K RES. METAL FILM 5.6K	1% 1/5W 0.5%1/4W	R122 R92-1076-05 R123 RD14BB2C472J	RES. METAL GLAZE27M 5% 1/2W RES. CARBON 4.7K 5% 1/6W
R 0 3 6 R 0 3 7	RN14BE2E5601D RD14BB2C102J	RES. CARBON 1K	5% 1/6W	R123 RD14BB2C472J R124 RD14BB2C105J	RES. CARBON 1M 5% 1/6W
R038	R92-1150-05	RES. METAL FILM 100K	1% 1/5W	KIZ4 RDI4BBZCI033	REG. OARBON III ON 1. O.
R039	R92-1138-05	RES. METAL FILM 360	1% 1/5W	R127 RD14BB2C911J	RES. CARBON 910 5% 1/6W
R 0 4 0	RD14BB2C221J	RES. CARBON 220	5% 1/6W	R128 R92-1133-05	RES. METAL FILM 5.6K 1% 1/5W
R 0 4 1	R92-1147-05	RES. METAL FILM 16.2K	1% 1/5W	R129 RD14BB2C472J	RES. CARBON 4.7K 5% 1/6W
R 0 4 2	RN14BE2H1002D	RES. METAL FILM 10K	0.5%1/2W	R130 RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R 0 4 3	RN 1 4 B E 2 H 3 6 5 2 D	RES. METAL FILM 36.5K		R131 R92-1149-05	RES. METAL FILM 22K 1% 1/5W
R 0 4 4	RN14BE2H3652D	RES. METAL FILM 36.5K		R132 RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R 0 4 5	RN14BE2H1002D	RES. METAL FILM 10K	0.5%1/2W	R133 RD14BB2C103J	RES. CARBON 10K 5% 1/6W RRS. CARBON 10K 5% 1/6W
R 0 4 6	RN14BE2H3740D	RES. METAL FILM 374	0.5%1/2W	R134 RD14BB2C103J	
R 0 4 7	RD14BB2C102J	RES. CARBON 1K	5% 1/6W 5% 1/6W	R135 RD14BB2C102J	RES. CARBON 1K 5% 1/6W RES. CARBON 4.7K 5% 1/6W
R 0 4 8 R 0 4 9	RD14BB2C102J	RES. CARBON 1K Res. Metal film 1k	1% 1/5W	R136 RD14BB2C472J R137 RD14BB2C102J	RES. CARBON 1K 5% 1/6W
R 0 5 0	R92-1134-05 RD14BB2C102J	RES. CARBON 1K	5% 1/6W	R138 NO USE	REG. CHRECK
R 0 5 1	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	R139 RD14DB3A330J	RES. CARBON 33 5% 1W
R 0 5 2	R92-1134-05	RES. METAL FILM 1K	1% 1/5W	R140 NO USE	
R 0 5 3	RD14BB2C162J	RES. CARBON 1.6K	5% 1/6W	R141 RD14DB2H102J	RES. CARBON 1K 5% 1/2W
R 0 5 4	R92-1140-05	RES. METAL FILM 4.3K	1% 1/5W	R142 NO USE	
R 0 5 5	R92-1131-05	RES. MRTAL FILM 430	1% 1/5W	R143 RN14BE2H3652D	RES. METAL FILM 36.5KO.5% 1/2W
R 0 5 6	RD14BB2C122J	RES. CARBON 1.2K	5% 1/6W	R144 RD14BB2C103J	RES. CARBON 10K 5% 1/6W
R 0 5 7	RD14BB2C101J	RES. CARBON 100	5% 1/6W	U001 NIMO70D	FET INPUT OPERATION AMPLIFIER
R058	RD14BB2C102J	RES. CARBON 1K RES. CARBON 1K	5% 1/6W 5% 1/6W	UOO1 NJMO72D UOO2 NJM7815A	IC, VOLTAGE REGULATOR
R 0 5 9 R 0 6 0	RD14BB2C102J RD14BB2C102J	RES. CARBON 1K RES. CARBON 1K	5% 1/6W	U003 NJM072D	FET INPUT OPERATION AMPLIFIER
R 0 6 1	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	U004 OP07DP	OPERATIONAL AMPRIFIER
R 0 6 2	RD14BB2C122J		5% 1/6W	UOO5 OPO7DP	OPERATIONAL AMPRIFIER
R 0 6 3	RD14BB2C473J	RES. CARBON 47K	5% 1/6W	U006 UPC4558C	OPERATIONAL AMPRIFIER
R 0 6 4	R92-1145-05	RES. METAL FILM 10K	1% 1/5W	U007 NJM072D	FET INPUT OPERATION AMPLIFIER
R 0 6 5	RD14DB3A101J	RES. CARBON 100	5% 1W		
R 0 6 6	R92-1132-05	RES. METAL FILM 712	1% 1/5W	U010 NJM7815A	IC, VOLTAGE REGULATOR
R067	RD14BB2C104J	RES. CARBON 100K	5% 1/6W	UO11 UPC7915HA	IC, VOLTAGE REGULATOR OPERATIONAL AMPRIFIER
R068	R92-1150-05	RES. METAL FILM 100K	1% 1/5W 1% 1/5W	U012 UPC4558C	FET INPUT OPERATION AMPLEFIER
R 0 6 9 R 0 7 0	R92-1141-05	RES. METAL FILM 4.7K RES. METAL FILM 150	1% 1/5W 1% 1/5W	U013 NJM072D U014 HA17555PS	TIMER
R 0 7 1	R92-1137-05 RD14BB2C471J	RES. CARBON 470	5% 1/6W	U015 TLP521-1(A)	PHOTO COUPLER
R 0 7 2	R92-1143-05	RES. METAL FILM 6.8K	1% 1/5W	0010 15.021 1(4)	1 4010 0001 224
R 0 7 3	R92-1148-05	RES. METAL FILM 18K	1% 1/5W	VR001 R12-1532-05	RES. SEMI FIXED 2K B
R 0 7 4	RD14BB2C104J	RES. CARBON 100K	5% 1/6W	VR002 R12-4511-05	RES. SEMI FIXED 50K B
R075	RD14BB2C104J	RES. CARBON 100K	5% 1/6W	VR003 R12-2518-05	RES. SEMI FIXED 5K B
R 0 7 6	R92-1150-05	RES. METAL FILM 100K	1% 1/5W	VR004 R12-4511-05	RES. SEMI FIXED 50K B
R 0 7 7	R92-1141-05	RES. METAL FILM 4.7K	1% 1/5W	VR005 R12-3522-05	RES. SEMI FIXED 10K B
R078	R92-1137-05	RES. METAL FILM 150	1% 1/5W	VR006 R12-3523-05	RES. SEMI FIXED 20K B
R079	RD14BB2C471J	RES. CARBON 470	5% 1/6W	VR007 R12-2513-05	RES. SEMI FIXED 5K B
R 0 8 0	R92-1143-05	RES. METAL FILM 6.8K	1% 1/5W 1% 1/5W	VR008 R12-4508-05	RES. SEMI FIXED 50K B
R 0 8 1 R 0 8 2	R92-1148-05 R92-1142-05	RES. METAL FILM 18K RES. METAL FILM 5.1K	1% 1/5W	VR009 R12-2513-05	RES. SEMI FIXED 5K B
R 0 8 3	RD14BB2C104J	RES. CARBON 100K	5% 1/6W	VR010 R12-4508-05 VR011 R12-4508-05	RES. SEMI FIXED 50K B RES. SEMI FIXED 50K B
R 0 8 4	R92-1150-05	RES. METAL FILM 100K	1% 1/5W	* NUII NIZ-4500-05	EDO, ODNI IIRDD OOM D
R 0 8 5	R92-1136-05	RES. METAL FILM 82	1% 1/5W	VR020 R12-3522-05	RES. SEMI FIXED 10K B
R 086	RD14BB2C101J	RES. CARBON 100	5% 1/6W		
R087	R92-1142-05	RES. METAL FILM 5.1K	1% 1/5W		
R088	R92-1145-05	RES. METAL FILM 10K	1% 1/5W		
R 089	RD14BB2C333J	RES. CARBON 33K	5% 1/6W		

AMPLIFIER UNIT				REF.NO C202	CE04W1E470M	NAME & DESCR	IPTION 47 20% 25V 470 20% 25V
	(73-1700-01			C 2 O 3 C 2 O 4	CE04W1E471M CE04W1E470M	CAP. ELECTRO CAP. ELECTRO	47 20% 25V
			ļ	C205	CF92V1H473J	CAP. POLYESTER	0.047 5% 50V
REF. NO PARTS NO	NAME & DESCRIF TERMINAL	PTION	ļ	C206	CF92V1H103J	CAP. POLYESTER	0.01 5% 50V 0.047 5% 50V
E23-0047-04 F01-0846-05	HEAT SINK			C207 C208	CF92V1H473J CF92V1H103J	CAP. POLYESTER CAP. POLYESTER	0.047 5% 50V 0.01 5% 50V
F01-0856-14	HEAT SINK			C209	CF92V1H473J	CAP. POLYESTER	0.047 5% 50V
J25-5159-12	PCB (UNMOUNTED)			C210	CF92V1H103J	CAP. POLYESTER	0.01 5% 50V
NO9-0623-04		1 3 X 8		C211	CF92V1H473J	CAP. POLYESTER	0.047 5% 50V
212-1018-05 212-2010-05	TUBE (PLASTIC) TUBE (PLASTIC)			C212	CF92V1H103J	CAP. POLYESTER	0.01 5% 50V
C001 CF92V1H473J		0.047 5%	50 V	D 0 0 1	S1VB20	DIODE	
C002 CF92V1H473J		0.047 5%	50 V	D 0 0 2	S1 V B 2 O	DIODE	
C003 C90-0924-05 C004 CE04W1E100M		330 10 20%	50V 25V	D003	DSA1A2	DIODE	
C005 CE04DW1E221M		220 20%	25 V	D 0 0 4 D 0 0 5	DSA1A2 NO USE	DIODE	
C006 C90-0939-05	CAP. ELECTRO 4	170	35 V	D006	RD13F(B2)	DIODE ZENER	13 V
COO7 CEO4W1E100M		10 20% 10 20%	25 V 25 V	D007	MTZ9.1JC	DIODE ZENER	9 V
C008 CE04W1E100M C009 CE04DW1E221M		220 20%	25V	D008 D009	188132	DIODE Diode Zener	13V
C010 C90-0924-05		330	50 V	D019	RD13F(B2) MTZ9.1JC	DIODE ZENER	9 0
CO11 CEO4W1E101M		100 20%	25 V		188132	DIODE	
CO12 CEO4W1HR33M CO13 CEO4W1H4R7M		0.33 20% 4.7 20%	50V 50V	D012	MTZ4.7JA	DIODE ZENER	4.5V
CO13 CEO4W1H4R7M CO14 CEO4W1E100M		10 20%	25 V		188132 18259(T)	DIODE DIODE ZENER	6.25V
CO15 CEO4AW1H010M	CAP. ELECTRO 1	1 20%	50 V		1SZ59(T)	DIODE ZENER	6.25V
C016 CC45CH1H101J		100P 5%	50 V		188132	DIODE	
CO17 CEO4AW1HO1OM CO18 CC45CH1H1O1J		1 20% 100P 5%	50 V 50 V		188132	DIODE	
C019 C90-0967-05			160V		188132 188132	DIODE	
C020 CQ92P2A102J		1000P 5%	100V	D020	188132	DIODE	
CO21 NO USE	CAR MULAR S	2200B E¥	100V		188132	DIODE	
C022 CQ92P2A332J C023 NO USE	CAP. MYLAR 3	3300P 5%	1004	D022 D023	188132 188132	DIODE	
C024 CF92V1H332J	CAP. POLYESTER 3	3300P 5%	5 O V	D024	188132	DIODE	
	0.D 0.D.4.H.0 1	100D FW	F0.4	D025	188132	DIODE	
CO28 CC45CH1H101J CO29 NO USE	CAP. CERAMIC 1	100P 5%	5 0 V	DØ26 DØ27	188132 188132	DIODE	
C030 CC45CH1H101J	CAP. CERAMIC 1	100P 5%	50 V	D028	MTZ5.1JB	DIODE, ZENER	5 V
C031 CF92V1H103J		0.01 5%	5 0 V	D029	188132	DIODE	F.11
C032 CC45CH1H101J		100P 5% 0.01 5%	50 V 50 V	D030 D031	MTZ5.1JB DSA1A2	DIODE, ZENER DIODE	5 V
CO33 CF92V1H1O3J CO34 CF92V1H1O3J		0.01 5%	50 V	D031	DSA1A2	DIODE	
C035 CF92V1H103J	CAP. POLYESTER (	0.01 5%	5 0 V				
C036 CF92V1H473J		0.047 5% 0.01 5%	50 V 50 V	D040	S1VB20	DIODE	
CO37 CF92V1H1O3J CO38 CF92V1H473J		0.047 5%	5 0 V	D041 D042	S1VB20 DSA1A2	DIODE	
C039 CF92V1H473J	CAP. POLYESTER (	0.047 5%	5 0 V	D043	DSA1A2	DIODE	
C040 CF92V1H473J		0.047 5% 0.047 5%	50 V 50 V	D044	DSA1A2	DIODE	
CO41 CF92V1H473J CO42 CC45CH1H101J		100P 5%	50 V	D045 D046	DSA1A2 MTZ6.2JB	DIODE DIODE ZENER	6.1V
C043 CC45CH1H101J	CAP. CERAMIC 1	100P 5%	5 0 V	D047	188132	DIODE	
C044 CF92V1H472J	CAP. POLYESTER	4700P 5% 4700P 5%	50 V 50 V		188132	DIODE	
CO45 CF92V1H472J	CAP. POLYESTER 4	4 / UUF 3 A	304	D049 D050	188132 188132	DIODE DIODE	
C050 CF92V1H473J		0.047 5%	5 0 V	D051	RD10F(B2)	DIODE ZENER	10V
	CAP. POLYESTER		50V		RD10F(B2)		1 0 V
CO52 C90-0924-05 CO53 CF92V1H103J		330 0.01 5%	50 V 50 V	D053 D054	188132 188132	DIODE DIODE	
C054 CF92V1H103J		0.01 5%	5 0 V	D055	188132	DIODE	
C055 CE04W1E100M		10 20%	25 V	D056	188132	DIODE	
C056 C90-0924-05		330 0.01 5%	5 O V 5 O V	D057	188132	DIODE	
C057 CF92V1H103J C058 CF92V1H103J		0.01 5%	50 V	D058 D059	155132 MTZ8.2JC	DIODE DIODE ZENER	9.6V
C059 CE04W1E100M	CAP. BLECTRO	10 20%	25 V	D060	188132	DIODE	
C060 CF92V1H103J		0.01 5%	50 V	D061	188132	DIODE	
C061 CC45CH1H470J C062 C91-0595-05		47P 5% 0.033 2%	50 V 50 V	D062 D063	188132 188132	DIODE	
C063 CC45CH1H101J		100P 5%	5 0 V	D064	188132	DIODE	
C064 CF92V1H102J		1000P 5%	5 0 V	D065	188132	DIODE	
C065 CF92V1H103J		0.01 5% 4700P 5%	50 V 50 V		61 11 10 0	DIADE	
C066 CF92V1H472J C067 CE04W1E100M	· · · · · ·	10 20%	25 V	D201 D202	S 1 V B 2 O S 1 V B 2 O	DIODE DIODE	
C068 CF92V1H103J	CAP. POLYESTER	0.01 5%	50 V		- 2 - 0 - 0		
C069 CF92V1H473J		0.047 5%	50V	P003	E40-0273-05	PIN CONNECTOR	2 P
CO70 CE04AW1E100M CO71 CE04AW1E100M		10 20% 10 20%	25 V 25 V	P004	E40-0273-05	PIN CONNECTOR	2 P
CO72 NO USE	ONI, BEBUIRO		201	P201	E40-0673-05	PIN CONNECTOR	6 P
C073 CF92V1H224J		0.22 5%	50 V	P202	E40-0373-05	PIN CONNECTOR	3 P
CO74 CC45CH1H101J		100P 5% 10 20%	50 V 25 V	P203	E40-0373-05	PIN CONNECTOR	3 P 6 P
C075 CE04W1E100M C076 CE04W1C471M		470 20%	16 V	P204 P205	E40-0673-05 E40-0273-05	PIN CONNECTOR PIN CONNECTOR	6 r 2 P
				P206	B40-0273-05	PIN CONNECTOR	2 P
C201 CE04W1E471M	CAP. ELECTRO	470 20%	25 V				

REF.NO	PARTS NO	NAME & DESCRIPTION		BF.NO R065	PARTS NO RD14DB3A101J	NAME & DESCR RES. CARBON	IPTION 100	5 <b>%</b>	1 W
9001	2SD1406(Y)	TR. SI. NPN		R066	R92-1132-05	RES. METAL FILM			1/5W
0002	2SC2785(F)	TR. SI, NPN		R067	RD14BB2C104J	RES. CARBON	100K		1/6W
0003	2SC2785(F)	TR. SI, NPN	li li	R 0 6 8	R92-1150-05	RES. METAL FILM			1/5W
9004 9005	25A1021(0) 25B1015(Y)	TR. SI, PNP TR. SI, PNP		R069	R92-1141-05	RES. METAL FILM			1/5W
2006	2581015(1) 2581175(F)	TR. SI, PNP		R 0 7 0 R 0 7 1	R92-1137-05 RD14BB2C471J	RES. METAL FILM RES. CARBON	470		1/5W 1/6W
0007	2SA1175(F)	TR. SI, PNP		R072	R92-1143-05	RES. METAL FILM			1/5W
0008	2SC2481(0)	TR. SI, NPN		R073	R92-1061-05	JUMPING RES.		MHC	
0009	2SC3064(F)	TR. SI, NPN		R 0 7 4	RD14BB2C104J	RES. CARBON	100K		1/6W
Q010 Q011	2SC2785(F) 2SC2785(F)	TR. SI, NPN TR. SI, NPN		R 0 7 5 R 0 7 6	RD14BB2C104J R92-1150-05	RES. CARBON RES. METAL FILM	100K		1/6W 1/5W
0012	2SC2459 (GR)	TR. SI, NPN		R077	R92-1141-05	RES. METAL FILM			1/5W
0013	2SC2481(0)	TR. SI, NPN		R 0 7 8	R92-1137-05	RES. METAL FILM			1/5W
Q016	25K170(BL)	FET, N-CHANNEL		R079	RD14BB2C471J	RES. CARBON	470	5 <b>%</b>	1/6W
9017	25K170(BL)	PET, N-CHANNEL		R 0 8 0 R 0 8 1	R92-1177-05 R92-1061-05	RES. FIXED JUMPING RES.	ZERO C	ни	
			<b>I</b>	R082	R92-1142-05	RES. METAL FILM			1/5W
9020	25K170(BL)	FET, N-CHANNEL		R083	RD14BB2C104J	RES. CARBON	100K		1/6W
Q 0 2 1 Q 0 2 2	2SC2785(F) 2SC2481(0)	TR. SI, NPN TR. SI, NPN	4	R 0 8 4	R92-1150-05	RES. METAL FILM		1 %	1/5W
4022	2002401(0)	IR. 01, K.K		R 0 8 5 R 0 8 6	R92-1136-05 RD14BB2C101J	RES. METAL FILM RES. CARBON	82 100		1/5W 1/6W
R 0 0 1	RD14BB2C101J		5% 1/6W	R087	R92-1142-05	RES. METAL FILM			1/5W
R 0 0 2	RD14BB2C101J			R 0 8 8	R92-1145-05	RES. METAL FILM	10 K		1/5W
R O O 3 R O O 4	RD14DB3D471J R92-1161-05			R089	RD14BB2C333J	RES. CARBON	33 K		1/6W
R005	RD14DB2H512J		FW 1/00	R 0 9 0 R 0 9 1	RD14BB2C333J NO USE	RES. CARBON	33 K	5%	1/6W
R 0 0 6	RD14BB2C102J	RBS. CARBON 1K !	5% 1/6W	R092	RD14BB2C153J	RES. CARBON	15K	5 <b>%</b>	1/6W
R 0 0 7	RD14DB2H2R7J		5% 1/2W	R 0 9 3	RD14BB2C473J	RES. CARBON	47 K	5 <b>%</b>	1/6W
R 0 0 8 R 0 0 9	RD14BB2C153J			R 0 9 4	RD14BB2C473J	RES. CARBON	47 K		1/6W
R010	R92-1144-05 R92-1144-05		1% 1/5W	R 0 9 5	RD14BB2C471J	RES. CARBON	470	5 <b>%</b>	1/6₩
R 0 1 1	RD14DB3D471J		5% 2W	R 1 0 0	RD14BB2C101J	RES. CARBON	100	5 <b>%</b>	1/6W
R012	R92-1161-05			R101	RD14BB2C101J	RES. CARBON	100		1/6W
R O 1 3 R O 1 4	RD14DB2H512J			R102	RD14DB2H392J	RES. CARBON	3.9K		1/2W 1/6W
R015	RD14BB2C102J RD14DB2H2R7J			R 1 0 3 R 1 0 4	RD14BB2C103J RD14BB2C153J	RES. CARBON RES. CARBON	10 K 15 K		1/6W
R016	RD14BB2C153J			R105	RD14BB2C123J	RES. CARBON	12 K		1/6W
R017	RD14BB2C682J		5% 1/6W   -	R106	RD14BB2C332J	RES. CARBON	3.3K	5 %	1/6W
R018	R92-1138-05			R107	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W
R O 1 9 R O 2 O	R92-1131-05 R92-1139-05	RES. MRTAL FILM 430 1 RES. METAL FILM 3.09K 1	4 84 84 8 9 9 9	R108 R109	R92-1152-05 RD14BB2C104J	RES. METAL FILM RES. CARBON	470K 100K	1 % 5 %	1/5W 1/6W
R 0 2 1	R92-1140-05			R110	RD14BB2C222J	RES. CARBON	2.2K	5%	1/6W
				R111	R92-1149-05	RES. METAL FILM		1 %	1/5W
R 0 2 4	RD14BB2C153J	The state of the s		R112	RD14BB2C682J	RES. CARBON	6.8K	5 <b>%</b>	1/6W
R 0 2 5 R 0 2 6	RD14BB2C153J RD14BB2C243J			R113 R114	R92-1151-05 RD14BB2C470J	RES. METAL FILM RES. CARBON	33UK 47	1 % 5 %	1/5W 1/6W
R 0 2 7	RD14BB2C121J			R115	RD14BB2C104J	RBS. CARBON	100K	5%	1/6W
R028	RD14BB2C182J			R116	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6W
R029	RD14BB2C181J			R117 R118	RD14BB2C224J RD14BB2C103J	RES. CARBON RES. CARBON	220K 10K	5% 5%	1/6W 1/6W
R 0 3 0 R 0 3 1	RN14BE2E5101D RD14BB2C102J			R119	RD14BB2C122J	RES. CARBON	1.2K	5%	1/6W
R 0 3 2	R92-1150-05			R120	RD14DB3D472J	RES. CARBON	4.7K	5 <b>%</b>	2 W
R 0 3 3	R92-1138-05			R121	RD14BB2C104J	RES. CARBON	100K	5%	1/6W
R034	RD14BB2C151J			R122 R123	R92-1076-05 RD14BB2C472J	RES. METAL GLAZ RES. CARBON	4.7K	5 % 5 %	1/2W 1/6W
R 0 3 5 R 0 3 6	R92-1146-05 RN14BE2E5601D			R124	RD14BB2C105J	RES. CARBON	1 M	5%	1/6W
R 0 3 7	RD14BB2C102J		5% 1/6W						
R 0 3 8	R92-1150-05	RES. METAL FILM 100K		R127	RD14BB2C911J	RES. CARBON	910	5%	1/6W
R O 3 9 R O 4 O	R92-1138-05 RD14BB2C221J			R128 R129	R92-1133-05 RD14BB2C472J	RES. METAL FILM RES. CARBON	5.6K 4.7K	1 % 5 %	1/5W 1/6W
R 0 4 1	R92-1147-05	RES. METAL FILM 16.2K		R130	RD14BB2C103J	RES. CARBON	10 K	5%	1/6W
R 0 4 2	RN14BE2H1002D	RES. METAL FILM 10K	0.5%1/2W	R131	R92-1149-05	RES. METAL FILM		1 %	1/5W
R 0 4 3	RN14BE2H3652D	RES. METAL FILM 36.5KO	EN 4 /011	R132	RD14BB2C102J	RES. CARBON	1 K	5%	1/6W
R 0 4 4 R 0 4 5	RN14BE2H3652D RN14BE2H1002D	RES. METAL FILM 36.5KO RES. METAL FILM 10K	0 581/00	R133	RD14BB2C103J	RES. CARBON RES. CARBON	10 K 10 K	5 % 5 %	1/6W 1/6W
R 0 4 6	RN14BE2H3740D		0 584 / 013	R134 R135	RD14BB2C103J RD14BB2C102J	RES. CARBON	1 K	5%	1/6W
R 0 4 7	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	R136	RD14BB2C472J	RES. CARBON	4.7K	5%	1/6₩
R 0 4 8	RD14BB2C102J			R137	RD14BB2C102J	RES. CARBON	1 K	5 X	1/6W
R 0 4 9 R 0 5 0	R92-1134-05			R138	NO USE	DDC CADDON	0.0	5 <b>%</b>	1 W
R051	RD14BB2C102J RD14BB2C102J			R139 R140	RD14DB3A330J NO USE	RES. CARBON	33	3 %	1 44
R 0 5 2	R92-1134-05			R141	RD14DB2H102J	RES. CARBON	1 K	5 %	1/2W
R 0 5 3	RD14BB2C162J	RES. CARBON 1.6K	5% 1/6W	R142	NO USE				
R054	R92-1140-05			R143	RN14BE2H3652D	RES. METAL FILM	36.5K	U.5%	1/2W
R 0 5 5 R 0 5 6	R92-1131-05 RD14BB2C122J		1% 1/5W 5% 1/6W	R144	RD14BB2C103J	RES. CARBON	10 K	3%	1/6W
R 0 5 7	RD14BB2C122J RD14BB2C101J			U 0 0 1	NJM072D	FET INPUT OPERA	TION A	MPLI	FIER
R 0 5 8	RD14BB2C102J	RES. CARBON 1K	5% 1/6W	U 0 0 2	NJ M 7 8 1 5 A	IC, VOLTAGE REG	ULATOR		
R059	RD14BB2C102J			0003	NJM072D	PET INPUT OPERA			FIER
R 0 6 0 R 0 6 1	RD14BB2C102J RD14BB2C102J			U 0 0 4 U 0 0 5	OPO7DP OPO7DP	OPERATIONAL AMP			
R 0 6 2	RD14BB2C102J			U 0 0 6	UPC4558C	OPERATIONAL AMP			
R063	RD14BB2C473J	RES. CARBON 47K	5% 1/6W	U 0 0 7	NJM072D	PET INPUT OPERA			FIER
R 0 6 4	R92-1145-05	RES. METAL FILM 10K	1% 1/5W						

REF.NO	PARTS NO	NAME & DESCRIPTION
		IC, VOLTAGE REGULATOR
U 0 1 1	UPC7915HA	IC, VOLTAGE REGULATOR
U O 1 2	UPC4558C	OPERATIONAL AMPRIFIER
U O 1 3	NJM072D	FBT INPUT OPBRATION AMPLIFIER TIMER PHOTO COUPLER
U 0 1 4	HA17555PS	TIMER
U 0 1 5	TLP521-1(A)	PHOTO COUPLER
U 2 O 1	LM79L05ACZ	REGULATOR
U 2 O 2	LM79L05ACZ	REGULATOR
		***************************************
V D ft ft 1	P12-1532-05	RES. SEMI FIXED 2K B
		RES. SEMI FIXED 50K B
		RES. SEMI FIXED 5K B
		RES. SEMI FIXED 50K B
V K U U 4	R12-4011-00	RES. SEMI FIXED 10K
		RES. SEMI FIXED 20K
		RES. SEMI FIXED 3K B
		RES. SEMI FIXED 50K B
VR009	R12-1531-05	RES. SEMI FIXED 3K B
VR 0 1 0	R12-4511-05	RES. SEMI FIXED 50K B
		RES. SEMI FIXED 50K B
V R O 20	R12-3522-05	RES. SEMI FIXED 10K B

## **DIGITAL PANEL METER UNIT (PD110-5D)**

	X7	-1260-09	
CO01 CO02 CO03 CO04 CO05 CO06 CO07 CO08	PARTS NO  833-4072-00  J25-5119-02  CE04CW1A470M  CE04CW1A470M  CE04-05  CF92V1H473J  CF92V1H104J  CM93BD2A101J  CF92V1H223J  C91-1205-05  NO USE	CAP. POLYESTER 0. CAP. POLYESTER 0. CAP. MICA 10 CAP. POLYESTER 0. CAP. CERANIC 0.	7 20% 10V 0 20% 10V .22 150 .047 5% 50V .1 5% 50V 00P 5% 100 .022 5% 50V
C010 C011 C031 C032 C033 C034	CE04CW1V2R2M C91-0591-05 CE04CW1A470M CE04CW1A100M C91-1204-05 CF92V1H473J	CAP. CERAMIC 0.  CAP. ELECTRO 47  CAP. ELECTRO 16  CAP. CERAMIC 0.	
C035 C036 C037	CF92V1H104J CF92V1H101J CF92V1H223J GL9D03D	CAP. POLYESTER 0. CAP. MICA 10	.1 5% 50V 00P 5% 100 .022 5% 50V
D002 D003 D004 D005 D006 D007 D008	GL9D03D GL9D03D GL9D03D LT9002D 1SS132 1S1544A 1S1544A 1SS132	DIODE DIODE DIODE LED DIODE DIODE DIODE DIODE	
D032 D033 D034 D035	GL9D03D GL9D03D GL9D03D LT9002D	DIODE DIODE DIODE LED	
P003 P004	E31-2513-15 E31-2512-15		N N E C † O R N N E C † O R
P204 Q001	E31-2520-15 DTC144EF	LEAD WIRE WITH CO! TR. SI, NPN	N N E C T O R
Q002 Q003 Q004	DTC144EF DTA124EF 2SK117 (GR)	TR. SI, NPN TR. SI, PNP FBT. N-CHANNEL	
R 0 0 1 R 0 0 2 R 0 0 3 R 0 0 4 R 0 0 5 R 0 0 6	RN14BK2C4703F RN14BK2C1103F RD14BB2C182J RN14BE2E1502F RN14BE2E1002F RD14BB2C161J	RES. METAL FILM 1: RES. CARBON 1: RES. METAL FILM 1: RES. METAL FILM 1:	70K 1% 1/6W 10K 1% 1/6W .8K 5% 1/6W 5K 1% 1/4W 0K 1% 1/4W 60 5% 1/6W
R011 R012 R013 R014	RD14BB2C123J RD14BB2C3333J RD14BB2C104J RD14BB2C104J RD14BB2C103J RD14BB2C103J R92-1061-05	RES. CARBON 3; RES. CARBON 1! RES. CARBON 1! RES. CARBON 1! JUMPING RES. 2!	2K 5% 1/6W 3K 5% 1/6W 00K 5% 1/6W 00K 5% 1/6W 0K 5% 1/6W ERO (HM
R015 R016 R017 R018 R019 R020	RD14BB2C301J RD14BB2C301J RD14BB2C103J RD14BB2C104J RN14BC2E1001F NO USE	RES. CARBON 31 Res. Carbon 11	00 5% 1/6W 00 5% 1/6W 0K 5% 1/6W 00K 5% 1/6W K 1% 1/4W
R021 R022 R023 R024 R025 R026 R027 R028 R029 R030	RN14BK2C2001F RN14BK2C1501F RN14BK2C1301F RN14BK2C201F RN14BC2E1002F RD14BB2C161J RD14BB2C364J R92-1146-05 R92-1143-05 NO USE	RES. METAL FILM 1 RES. METAL FILM 2 RES. METAL FILM 1 RES. CARBON 1 RES. CARBON 3 RES. METAL FILM 1	K 1% 1/6M .5K 1% 1/6M .3K 1% 1/6M .2K 1% 1/6M 0K 1% 1/4M 60 5% 1/6M 60 5% 1/6M 1K 1% 1/5M .8K 1% 1/5M
R 0 3 1	RN14BK2C4703F RN14BK2C1103F RD14BB2C182J	RES. METAL FILM 1	70K 1% 1/6K 10K 1% 1/6K .8K 5% 1/6K 5K 1% 1/4K

REF. NO	PARTS NO	NAME & DESCRI RES. METAL FILM	PTION
R035	RN14BE2E1002F	RES. METAL FILM	10K 1% 1/4V
		RES. CARBON	
		RES. CARBON	
		RES. CARBON	100K 5% 1/6
	NO USB RN14BC2E2671F	RES. METAL FILM	2.67K 1% 1/4V
		RES. METAL FILM	
R 0 5 6	RD14BB2C161J	RES. CARBON	160 5% 1/6
		OPBRATINAL AMPLI	
		2.5V REFERENCE D	
U O O 3	LM339N	QUAD COMPARATOR	
U 0 8 4	MC14011BCP	QUAD 2-INPUT NAN	D GATE
		OPERATINAL AMPLI	
U 0 3 2	LM336Z2.5	2.5V REFERENCE D	IODE
		RES. SEMI FIXED	
		RES. SEMI FIXED	
V R O O 3	R12-0556-05	RES. SEMI FIXED	100 B
		RES. SEMI FIXED	
VR032	R12-0568-05	RES. SEMI FIXED	500

#### **DIGITAL PANEL METER UNIT (PD110-3D)** X76-1260-11 REF. NO PARTS NO E33-4072-00 J25-5119-02 NAME & DESCRIPTION WIRE ASSY PCB (UNMOUNTED) CAP. ELECTRO C001 CE04CW1A470M 20% 10 V C002 CB04CW1A100M 10 20% 10 V CAP. CERAMIC CAP. POLYESTER C91-1204-05 0.22 C003 150 V C 0 0 4 CF92V1H473J 0.047 5% 50 V CAP. POLYESTER CAP. MICA CAP. POLYESTER C 0 0 5 CF92V1H104J 0.1 5% 5% 50 V CM93BD2A101J 100P 1000 C006 CF92V1H223J 0.022 5% COOR C91-1205-05 CAP. CERAMIC 50 V C009 CBO4CW1V2R2M 20% C011 C91-0591-05 CAP. CERAMIC 0.22 50 V CE04CW1A470M CAP. ELECTRO CAP. CERAMIC 10 10V 150V C032 CE04CW1A100M 20% C033 C91-1204-05 CF92V1H473J CAP. CERANIC CAP. POLYESTER CAP. POLYESTER CAP. MICA CAP. POLYESTER 0.047 C034 C035 CF92V1H104J 0.1 5% 5 0 V 100P C036 CM93BD2A101J 100V C037 CF92V1H223J 0.022 5% D 0 0 1 CLODIST DIODE D002 GL9D03D DIODE GL9D03D D003 DIODE D 0 0 4 GL9D03D DIODE D 0 0 5 LT9002D L.R.D. DIODE D006 188132 D007 1 S 1 5 4 4 A DIODE 0008 151544A DIODE D009 188132 DIODE D032 GL90030 DIODE D033 GL9D03D DIODE GL9D03D DIODE D035 LT9002D LED LEAD WIRE WITH CONNECTOR P 0 0 4 E31-2512-15 LEAD WIRE WITH CONNECTOR LEAD WIRE WITH CONNECTOR E31-2520-15 TR. SI, NPN TR. SI, NPN TR. SI, PNP 9001 DTC144EF DTC144EF 0002 0003 DTA124EF PET. N-CHANNEL 0004 2SK117(GR) RES. METAL FILM 470K RES. METAL FILM 110K RES. CARBON 1.8K 1% 1% 5% 1/6W 1/6W 1/6W R001 RN14BK2C4703F R002 RN14BK2C1103F RD14BB2C182J R003 RES. METAL FILM 15K RES. METAL FILM 10K 1/4W 1/4W RN14BE2E1502F 1 % R 0 0 5 RN14BE2E1002F RES. CARBON R006 RD14RB2C161J 160 R009 RD14BB2C123J RES. CARBON 12K 5 % 1/69 1/6W RES. CARBON RES. CARBON RES. CARBON 5 % R010 RD14BB2C333J 33K 1/6W 1/6W R011 RD14BB2C104J 100K RD14BB2C104J 100K 5% R013 R014 RD14BB2C103J R92-1061-05 RES. CARBON JUMPING RES. 1.0 K 5% 1/6W ZERO OHM R015 RD14BB2C301J RES. CARBON 300 5% 1/6W 1/6W 1/6W RES. CARBON RES. CARBON RES. CARBON R016 RD14BB2C301J 300 10K 5% RD14BB2C103J 5% RD14BB2C104J RN14BC2E1001F R 0 1 8 100K R019 RES. METAL FILM 1K 1/4W NO USE R020 RN14BK2C2001F R021 RES. METAL FILM 1.5K RES. METAL FILM 1.3K RES. METAL FILM 2.2K R 11 2 2 RN14BK2C1501F RN14BK2C1301F 1 % 1/6W 1/6W R023 1 % 1 % RN14BK2C2201F 1/6W R024 1/4W 1/6W 1/6W 1/5W RN14BC2E1002F RD14BB2C161J R025 RES. METAL FILM 10K R026 RES. CARBON RES. CARBON 160 360 K 5% 5% RD14BB2C364J R92-1146-05 R92-1143-05 R028 RES. METAL FILM 11K R029 RES. METAL FILM 6.8K 1/5W R 0 3 0 NO USE R031 RN14BK2C4703F RES. METAL FILM 470K 1/6W R 0 3 2 RN14BK2C1103F RD14BB2C182J RES. METAL FILM 110K RES. CARBON 1.8K 1 % 5 % 1/6W 1/6W R033 1.8K

RES. METAL FILM 15K

RN14BE2E1002F

DER NO	PARTS NO	NAME & DESCRIPTION
R036	RD14RB2C161J	RES. CARBON 160 5% 1/6W
R037	RD14BB2C391J	RES. CARBON 390 5% 1/6W
		RES. CARBON 100K 5% 1/6W
R 0 4 9	NO USB	
R U 5 U	RN14BC2E15U1F	RES. METAL FILM 1.5K 1% 1/4W
D 0 5 5	DN 1 4 B C 2 B 1 Q N 2 B	RES. METAL FILM 18K 1% 1/4W
		RES. CARBON 160 5% 1/6W
KUJU	KD1466201013	RES. CRABOR 100 0% 170W
U N N 1	TSC7107CPL-A	OPERATINAL AMPLIFIER
		2.5V REFERENCE DIODE
0003	LM339N	QUAD COMPARATOR
U 0 0 4	MC14011BCP	QUAD COMPARATOR QUAD 2-INPUT NAND GATE
U O 3 1	TSC7107CPL-A	OPERATINAL AMPLIFIER
U 0 3 2	LM336Z2.5	2.5V REFERENCE DIODE
		RES. SEMI FIXED 10K B
		RES. SEMI FIXED 500
V R O O 3	R12-0556-05	RES. SEMI PIXED 100 B
	D10 0510 05	npe comi pivon 10v b
		RES. SEMI FIXED 10K B
V K U 3 2	KIZ-U568-U5	RES. SEMI FIXED 500

#### AMPLIFIER UNIT (PD110-3/3D/5/5D)

X77-1400-04				
EF.NO	PARTS NO J19-1641-14 J25-5158-23	NAME & DESCRI HOLDER FOR LED PCB (UNMOUNTED)	PTION	
C001	CF92V1H103J	CAP. POLYESTER	0.01 5% 50V	
C002	NO USE			
C003	CK45B1H102K	CAP. CERANIC	1000P 10% 50V	
C 0 0 4	CF92V1H103J	CAP. POLYESTER	0.01-5% 50V	
C007	CE04W1H470M	CAP. ELECTRO	47 20% 50V	
D001	DSA1A2	DIODE		
D002	DSA1A2	DIODE		
D003	DSA1A2	DIODE		
D004 D005	DSA1A2 RD6.2EB3	DIODE		
D006	188132	DIODE		
D007	188132	DIODE		
D008	188132	DIODE		
D009	188132	DIODE		
D 0 1 0	CSM2B2A30	SCR		
D011	DSA1A2	DIODE		
D012	188132	DIODE		
D013	LN222RP	LED		
D014	DSA1A2	DIODE		
D015	DSA1A2	DIODE		
D016	188132	DIODE		
D 0 1 7	188132	DIODE		
P005	E40-0273-05	PIN CONNECTOR	2 P	
P006	E40-1373-05	PIN CONNECTOR	13 P	
P007	E40-0273-05	PIN CONNECTOR	2 P	
P008	E40-0373-05	PIN CONNECTOR	3 P	
P009	E40-0273-05	PIN CONNECTOR	2 P	
P 0 1 0	E40-0273-05	PIN CONNECTOR	2 P 2 P	
P011	E40-0273-05	PIN CONNECTOR		
P012	E40-0273-05	PIN CONNECTOR	2 P	
P302 P303	E40-0273-05 No USE	PIN CONNECTOR	2 P	
P304	E40-0273-05	PIN CONNECTOR	2 P	
P305	E40-0273-05	PIN CONNECTOR	2 P	
0001	2SC2481(0)	TR. SI, NPN TR. SI, PNP		
0002 0003	2SA1175(F) 2SC2785(F)	TR. SI, PNP TR. SI, NPN		
0004	2SC2785(F)	TR. SI. NPN		
2005	25 A 1 1 7 5 (F)	TR. SI, PNP		
R 0 0 1	RD14DB3A102J	RES. CARBON	1K 5% 1W	
R002	CE04W1C101M	CAP. ELECTRO	100 20% 16%	
R002	RD14DB3A102J	RES. CARBON	1K 5% 1W	
R003	RN14BE2E3831D	RES. METAL FILM	3.83K 0.5%1/4V	
R 0 0 4	RN14BE2H4022D	RES. METAL FILM	40.2K0.5% 1/2	
R005	CE04W1C101M	CAP. BLECTRO	100 20% 16	

RODG CEDAWICIOIM CAP. ELECTRO 100 20% 16  ROOG RN14BC2E1000F RES. METAL FILM 100 1% 1/41 ROO7 RN14BC2H7500F RES. METAL FILM 750 1% 1/21 ROO8 RD14BB2C102J RES. CARBON 1K 5% 1/61 ROO9 RD14BB2C392J RES. CARBON 3.9K 5% 1/61 RO10 RD14BB2C471J RES. CARBON 470 5% 1/61 RO11 RD14BB2C102J RES. CARBON 1K 5% 1/61 RO12 RD14BB2C102J RES. CARBON 2.7K 5% 1/61 RO13 RD14BB2C102J RES. CARBON 470 5% 1/61 RO14 RD14BB2C102J RES. CARBON 1K 5% 1/61 RO15 RD14BB2C102J RES. CARBON 1K 5% 1/61 RO16 RD14BB2C102J RES. CARBON 1K 5% 1/61 RO17 RD14BB2C103J RES. CARBON 22K 5% 1/61 RO17 RD14BB2C103J RES. CARBON 22K 5% 1/61 RO19 RD14BB2C21J RES. CARBON 22 5% 1/61 RO19 RD14BB2C102J RES. CARBON 10K 5% 1/61 RO19 RD14BB2C102J RES. CARBON 22 5% 1/61 RO20 RD14BB2C362J RES. CARBON 1	REF. NO	PARTS NO	NAME &	DESCRIPTION
ROO6 RN14BC2E1000F RES. METAL FILM 100 1% 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4 1/4		RN14BC2E2200F	RES. METAL	<b>-</b>
R008 RD14BB2C102J RES. CARBON 1	R 0 0 6	RN14BC2E1000F	RES. METAL	L FILM 100 1% 1/4W
R010 RD14BB2C471J RES. CARBON 470 5% 1/60 R011 RD14BB2C102J RES. CARBON 1K 5% 1/60 R012 RD14BB2C272J RES. CARBON 2.7K 5% 1/60 R013 RD14BB2C471J RES. CARBON 470 5% 1/60 R014 RD14BB2C102J RES. CARBON 1K 5% 1/60 R015 RD14BB2C102J RES. CARBON 1K 5% 1/60 R016 RD14BB2C223J RES. CARBON 1K 5% 1/60 R016 RD14BB2C223J RES. CARBON 22K 5% 1/60 R017 RD14BB2C103J RES. CARBON 22K 5% 1/60 R017 RD14BB2C103J RES. CARBON 22C 5% 1/60 R019 RD14BB2C102J RES. CARBON 22O 5% 1/60 R019 RD14BB2C362J RES. CARBON 1 K 5% 1/60 R020 RD14BB2C362J RES. CARBON 3.6K 5% 1/60 R021 RD14BB2C362J RES. CARBON 3.6K 5% 1/60 R021 RD14BB2C362J RES. CARBON 62D 5% 1/60 R022 RD14BB2C621J RES. CARBON 62D 5% 1/60 R022 RD14BB2C103J RES. CARBON 62D 5% 1/60 R024 RD14BB2C103J RES. CARBON 100 5% 1/60 R024 RD14BB2C103J RES. CARBON 100 5% 1/60 R025 RD14BB2C361J RES. CARBON 100 5% 1/60 R027 RD14BB2C512J RES. CARBON 100 5% 1/60 R028 RD14BB2C361J RES. CARBON 100 5% 1/60 R028 RD14BB2C361J RES. CARBON 100 5% 1/60 R033 RD14BB2C361J RES. CARBON 100 5% 1/60 R034 RD14BB2C183J RES. CARBON 100 5% 1/60 R034 RD14BB2C183J RES. CARBON 100 5% 1/60 R034 RD14BB2C183J RES. CARBON 100 5% 1/60 R034 RD14BB2C162J RD16 R014BA RD14BB2C162J RD16 R01				
R011 RD14BB2C102J RES. CARBON 1K 5% 1/60 R012 RD14BB2C272J RES. CARBON 2.7K 5% 1/61 R013 RD14BB2C471J RES. CARBON 470 5% 1/60 R014 RD14BB2C102J RES. CARBON 1K 5% 1/60 R015 RD14BB2C102J RES. CARBON 1K 5% 1/60 R016 RD14BB2C223J RES. CARBON 22K 5% 1/60 R017 RD14BB2C103J RES. CARBON 22K 5% 1/60 R018 RD14BB2C221J RES. CARBON 22C 5% 1/60 R019 RD14BB2C102J RES. CARBON 22C 5% 1/60 R019 RD14BB2C362J RES. CARBON 3.6K 5% 1/60 R020 RD14BB2C182J RES. CARBON 3.6K 5% 1/60 R021 RD14BB2C182J RES. CARBON 1.8K 5% 1/60 R022 RD14BB2C621J RES. CARBON 1.8K 5% 1/60 R023 RD14BB2C621J RES. CARBON 62C 5% 1/60 R024 RD14BB2C621J RES. CARBON 100 5% 1/60 R024 RD14BB2C101J RES. CARBON 100 5% 1/60 R024 RD14BB2C101J RES. CARBON 2.2K 5% 1/20 R025 RD14BB2C103J RES. CARBON 2.2K 5% 1/20 R025 RD14BB2C103J RES. CARBON 5.1K 5% 1/60 R027 RD14BB2C103J RES. CARBON 5.1K 5% 1/60 R027 RD14BB2C361J RES. CARBON 5.1K 5% 1/60 R031 RN14B22H02J RES. CARBON 5.1K 5% 1/60 R031 RN14B2C183J RES. CARBON 36O 5% 1/60 R031 RN14B2C183J RES. CARBON 10K 5% 1/60 R031 RN14B2C183J RES. CARBON 10K 5% 1/60 R032 RD14BB2C183J RES. CARBON 10K 5% 1/60 R033 RD14BB2C183J RES. CARBON 10K 5% 1/60 R033 RD14BB2C183J RES. CARBON 10K 5% 1/60 R031 RN14B2CH62J RES. CARBON 10K 5% 1/60 R032 RD14BB2C183J RES. CARBON 10K 5% 1/60 R033 RD14BB2C183J RES. CARBON 10K 5% 1/60 R033 RD14BB2C183J RES. CARBON 10K 5% 1/60 R031 RN14BE2H62J RES. CARBON 10K 5% 1/60 R031 RN14BE2H62J RES. CARBON 10K 5% 1/60 R031 RN14BB2C183J RES. CARBON 10K 5% 1/60 R032 RD14BB2C183J RES. CARBON 10K 5% 1/60 R033 RD14BB2C183J RES. CARBON 10K 5% 1/60 R031 RN14BB2C183J RES. CARBON 10K 5% 1/60 R032 RD14BB2C183J RES. CARBON 10K 5% 1/60 R033 RD14BB2C1001 RD14BC1 RD14BC1 RD14BC1 RD14BC1 RD14BC1 RD14BC1 RD14B				
R013 RD14BB2C471J RES. CARBON 470 5% 1/61 R014 RD14BB2C102J RES. CARBON 1K 5% 1/61 R015 RD14BB2C102J RES. CARBON 1K 5% 1/61 R016 RD14BB2C223J RES. CARBON 22K 5% 1/61 R017 RD14BB2C103J RES. CARBON 22K 5% 1/61 R017 RD14BB2C103J RES. CARBON 20C 5% 1/61 R018 RD14BB2C102J RES. CARBON 20C 5% 1/61 R019 RD14BB2C362J RES. CARBON 1 K 5% 1/61 R020 RD14BB2C362J RES. CARBON 3.6K 5% 1/61 R021 RD14BB2C362J RES. CARBON 1.8K 5% 1/61 R022 RD14BB2C621J RES. CARBON 620 5% 1/61 R022 RD14BB2C621J RES. CARBON 620 5% 1/61 R024 RD14BB2C101J RES. CARBON 620 5% 1/61 R025 RD14BB2C101J RES. CARBON 100 5% 1/61 R026 RD14BB2C103J RES. CARBON 1 100 5% 1/61 R027 RD14BB2C103J RES. CARBON 1 1	R 0 1 1	RD14BB2C102J		ON 1K 5% 1/6W
R014 RD14BB2C102J RES. CARBON 1K 5% 1/60 R015 RD14BB2C102J RES. CARBON 1K 5% 1/60 R016 RD14BB2C223J RES. CARBON 22K 5% 1/60 R017 RD14BB2C103J RES. CARBON 22K 5% 1/60 R017 RD14BB2C102J RES. CARBON 220 5% 1/60 R019 RD14BB2C362J RES. CARBON 1K 5% 1/60 R020 RD14BB2C362J RES. CARBON 3.6K 5% 1/60 R021 RD14BB2C362J RES. CARBON 1.8K 5% 1/60 R022 RD14BB2C362J RES. CARBON 1.8K 5% 1/60 R022 RD14BB2C621J RES. CARBON 1.8K 5% 1/60 R022 RD14BB2C621J RES. CARBON 620 5% 1/60 R023 RD14BB2C101J RES. CARBON 100 5% 1/60 R024 RD14BB2C101J RES. CARBON 2.2K 5% 1/20 R024 RD14BB2C103J RES. CARBON 2.2K 5% 1/20 R026 RD14BB2C103J RES. CARBON 10K 5% 1/60 R027 RD14BB2C103J RES. CARBON 10K 5% 1/60 R027 RD14BB2C361J RES. CARBON 5.1K 5% 1/60 R028 RD14BB2C361J RES. CARBON 360 5% 1/60 R031 RN14BE2H4022D RES. CARBON 360 5% 1/60 R032 RD14BB2C362J RES. CARBON 360 5% 1/60 R033 RD14BB2C372J RES. CARBON 18K 5% 1/60 R033 RD14BB2C183J RES. CARBON 18K 5% 1/60 R033 RD14BB2C183J RES. CARBON 1.6K 5% 1/60 R033 RD14BB2C183J RD14BB2C183J RES. CARBON 1.6K 5% 1/60 R033 RD14BB2C183J RD14BB2C1				
R016 RD14BB2C223J RES. CARBON 22K 5% 1/61 R017 RD14BB2C103J RES. CARBON 10K 5% 1/61 R018 RD14BB2C221J RES. CARBON 220 5% 1/61 R019 RD14BB2C102J RES. CARBON 11K 5% 1/61 R020 RD14BB2C362J RES. CARBON 3.6K 5% 1/61 R021 RD14BB2C182J RES. CARBON 1.8K 5% 1/61 R022 RD14BB2C621J RES. CARBON 620 5% 1/61 R023 RD14BB2C621J RES. CARBON 620 5% 1/61 R024 RD14DB2H222J RES. CARBON 100 5% 1/61 R024 RD14DB2H222J RES. CARBON 2.2K 5% 1/21 R025 RD14BB2C103J RES. CARBON 1 1 00 5% 1/61 R027 RD14BB2C103J RES. CARBON 1 1 00 5% 1/61 R027 RD14BB2C512J RES. CARBON 1 1 00 5% 1/61 R028 RD14BB2C361J RES. CARBON 5.1K 5% 1/61 R031 RN14BE2H4022D RES. CARBON 360 5% 1/61 R032 RD14BB2C361J RES. CARBON 360 5% 1/61 R033 RD14BB2C361J RES. CARBON 1 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	R 0 1 4	RD14BB2C102J	RES. CARBO	ON 1K 5% 1/6W
R017 RD14BB2C103J RES. CARBON 10K 5% 1/6k R018 RD14BB2C221J RES. CARBON 220 5% 1/6k R019 RD14BB2C362J RES. CARBON 1K 5% 1/6k R020 RD14BB2C362J RES. CARBON 3.6K 5% 1/6k R021 RD14BB2C362J RES. CARBON 1.8K 5% 1/6k R021 RD14BB2C621J RES. CARBON 620 5% 1/6k R022 RD14BB2C6101J RES. CARBON 620 5% 1/6k R024 RD14DB2H222J RES. CARBON 100 5% 1/6k R024 RD14DB2H222J RES. CARBON 100 5% 1/6k R025 RD14DB2H102J RES. CARBON 1 10K 5% 1/2k R026 RD14BB2C103J RES. CARBON 10K 5% 1/2k R027 RD14BB2C512J RES. CARBON 10K 5% 1/6k R028 RD14BB2C361J RES. CARBON 360 5% 1/6k R031 RN14BE2H4022D RES. CARBON 360 5% 1/6k R031 RN14BE2H33J RES. CARBON 360 5% 1/6k R032 RD14BB2C183J RES. CARBON 18K 5% 1/6k R033 RD14BB2C183J RES. CARBON 1 18K 5% 1/6k R033 RD14BB2C183J RES. CARBON 1 16K 5% 1/6k R034 RD14BB2C162J RES. CARBON 1 1.6K 5% 1/6k R035 RD14BB2C172J RES. CARBON 1 1.6K 5% 1/6k R036 RD14BB2C183J RES. CARBON 1 1.6K 5% 1/6k R037 RD14BB2C183J RES. CARBON 1 1.6K 5% 1/6k R038 RD14BB2C183J RES. CARBON 1 1.6K 5% 1/6k R031 RN14BB2C183J RES. CARBON 1 1.6K 5% 1/6k R033 RD14BB2C183J RES. CARBON 1 1.6K 5% 1/6k R034 RD14BB2C162J RES. CARBON 1 1.6K 5% 1/6k R035 RD14BB2C162J RES. CARBON 1 1.6K 5% 1/6k R030 S40-1518-05 PUSH SWITCH R001 NJM311D COMPARATOR R001 NJM311D COMPARATOR R0002 UPC4558C OPERATIONAL AMPRIFIER				N 22K 5% 1/6W
R019 RD14BB2C102J RES. CARBON 1K 5% 1/60 R020 RD14BB2C362J RES. CARBON 3.6K 5% 1/60 R021 RD14BB2C621J RES. CARBON 1.8K 5% 1/60 R022 RD14BB2C621J RES. CARBON 620 5% 1/60 R023 RD14BB2C101J RES. CARBON 100 5% 1/60 R024 RD14DB2H222J RES. CARBON 2.2K 5% 1/20 R024 RD14DB2H102J RES. CARBON 2.2K 5% 1/20 R025 RD14DB2H102J RES. CARBON 10K 5% 1/60 R027 RD14DB2C103J RES. CARBON 10K 5% 1/60 R027 RD14BB2C103J RES. CARBON 5.1K 5% 1/60 R027 RD14BB2C361J RES. CARBON 5.1K 5% 1/60 R027 RD14BB2C361J RES. CARBON 360 5% 1/60 R031 RN14BE2H4022D RES. CARBON 360 5% 1/60 R032 RD14BB2C361J RES. CARBON 360 5% 1/60 R033 RD14BB2C183J RES. CARBON 18K 5% 1/60 R033 RD14BB2C183J RES. CARBON 2.7K 5% 1/60 R034 RD14BB2E162J RES. CARBON 1.6K 5% 1/60 R034 RD14BB2E162J RES. CARBON 1.6K 5% 1/40 S001 S40-1518-05 PUSH SWITCH S002 S40-1518-05 PUSH SWITCH S003 S40-1518-05 PUSH SWITCH S003 VPC4558C OPERATIONAL AMPRIFIER	R017	RD14BB2C103J	RES. CARBO	ON 10K 5% 1/6W
R020 RD14BB2C362J RES. CARBON 3.6K 5% 1/66 R021 RD14BB2C182J RES. CARBON 1.8K 5% 1/66 R022 RD14BB2C621J RES. CARBON 620 5% 1/66 R023 RD14BB2C101J RES. CARBON 620 5% 1/66 R023 RD14BB2C101J RES. CARBON 100 5% 1/66 R024 RD14DB2H222J RES. CARBON 2.2K 5% 1/21 R025 RD14BB2C103J RES. CARBON 10				
R022				ON 3.6K 5% 1/6W
R024 RD14DB2H222J RES. CARBON 2.2k 5% 1/2k R025 RD14DB2H102J RES. CARBON 1K 5% 1/2k R026 RD14BB2C103J RES. CARBON 1OK 5% 1/6k R027 RD14BB2C512J RES. CARBON 5.1k 5% 1/6k R027 RD14BB2C361J RES. CARBON 360 5% 1/6k R028 RD14BB2C361J RES. CARBON 360 5% 1/6k R031 RN14BE2H4022D RES. CARBON 360 5% 1/6k R032 RD14BB2C183J RES. CARBON 18K 5% 1/6k R032 RD14BB2C183J RES. CARBON 18K 5% 1/6k R033 RD14BB2C183J RES. CARBON 2.7k 5% 1/6k R034 RD14BB2E162J RES. CARBON 1.6k 5% 1/4k S001 S40-1518-05 PUSH SWITCH S002 S40-1518-05 PUSH SWITCH S003 S40-1518-05 PUSH SWITCH U001 NJM311D COMPARATOR OPERATIONAL AMPRIFIER	R 0 2 2			ON 620 5% 1/6W
R025 RD14DB2H102J RES. CARBON 1K 5% 1/2% R026 RD14BB2C103J RES. CARBON 10K 5% 1/6% R027 RD14BB2C512J RES. CARBON 5.1K 5% 1/6% R028 RD14BB2C361J RES. CARBON 360 5% 1/6% R031 RN14BE2H4022D RES. CARBON 360 5% 1/6% R032 RD14BB2C183J RES. CARBON 18K 5% 1/2% R032 RD14BB2C183J RES. CARBON 18K 5% 1/6% R034 RD14BB2C272J RES. CARBON 2.7K 5% 1/6% R034 RD14BB2E162J RES. CARBON 1.6K 5% 1/4% S001 S40-1518-05 PUSH SWITCH S002 S40-1518-05 PUSH SWITCH S003 S40-1518-05 PUSH SWITCH U001 NJM311D COMPARATOR U002 UPC4558C OPERATIONAL AMPRIFIER				
R027 RD14BB2C512J RES. CARBON 5.1K 5% 1/6V R028 RD14BB2C361J RES. CARBON 360 5% 1/6V R031 RN14BE2H4022D RES. METAL FILM 40.2K0.5% 1/2V R032 RD14BB2C183J RES. CARBON 18K 5% 1/6V R033 RD14BB2C272J RES. CARBON 2.7K 5% 1/6V R034 RD14BB2E162J RES. CARBON 1.6K 5% 1/4V S001 S40-1519-05 PUSH SWITCH S002 S40-1518-05 PUSH SWITCH S003 S40-1518-05 PUSH SWITCH U001 NJM311D COMPARATOR U002 UPC4558C OPERATIONAL AMPRIFIER	R 0 2 5	RD14DB2H102J	RES. CARBO	ON 1K 5% 1/2W
R028 RD14BB2C361J RES. CARBON 360 5% 1/66 R031 RN14BE2H4022D RES. METAL FILM 40.2K0.5% 1/26 R032 RD14BB2C183J RES. CARBON 18K 5% 1/66 R033 RD14BB2C272J RES. CARBON 2.7K 5% 1/66 R034 RD14BB2E162J RES. CARBON 1.6K 5% 1/46 S001 S40-1519-05 PUSH SWITCH S002 S40-1518-05 PUSH SWITCH S003 S40-1518-05 PUSH SWITCH U001 NJM311D COMPARATOR U002 UPC4558C OPERATIONAL AMPRIFIER				
R032 RD14BB2C183J RES. CARBON 18K 5% 1/6V R033 RD14BB2C272J RES. CARBON 2.7K 5% 1/6V R034 RD14BB2E162J RES. CARBON 1.6K 5% 1/4V S001 S40-1519-05 PUSH SWITCH S002 S40-1518-05 PUSH SWITCH S003 S40-1518-05 PUSH SWITCH U001 NJM311D COMPARATOR U002 UPC4558C OPERATIONAL AMPRIFIER	R028	RD14BB2C361J		
R033 RD14BB2C272J RES. CARBON 2.7K 5% 1/6W R034 RD14BB2E162J RES. CARBON 1.6K 5% 1/4W S001 S40-1519-05 PUSH SWITCH S002 S40-1518-05 PUSH SWITCH S003 S40-1518-05 PUSH SWITCH U001 NJM311D COMPARATOR U002 UPC4558C OPERATIONAL AMPRIFIER				
R034 RD14BB2E162J RES. CARBON 1.6K 5% 1/4W S001 S40-1519-05 PUSH SWITCH S002 S40-1518-05 PUSH SWITCH S003 S40-1518-05 PUSH SWITCH U001 NJM311D COMPARATOR U002 UPC4558C OPERATIONAL AMPRIFIER				
\$002 \$40-1518-05 PUSH SWITCH \$003 \$40-1518-05 PUSH SWITCH U001 NJM311D COMPARATOR U002 UPC4558C OPERATIONAL AMPRIFIER	R 0 3 4			
S003 S40-1518-05 PUSH SWITCH  U001 NJM311D COMPARATOR U002 UPC4558C OPERATIONAL AMPRIFIER				
U001 NJM311D COMPARATOR U002 UPC4558C OPERATIONAL AMPRIFIER				
U002 UPC4558C OPERATIONAL AMPRIFIER				-
VROO1 R12-1524-05 RES. SEMI FIXED 2.5K	V R O O 1	R12-1524-05	RES. SEMI	FIXED 2.5K

#### **CURRENT DIFECTER UNIT (PD110-5)**

	X81-1850-02				
REF. NO	PARTS NO	NAME & DESCRIPTION			
	J25-5135-14	PCB (UNMOUNTED)			
	212-1018-05	TUBE (PLASTIC)			
J011	E23-0555-05	G. TERMINAL			
J012	B23-0555-05	G. TERMINAL			
J013	B23-0555-05	G. TERMINAL			
P207	B40-0273-05	PIN CONNECTOR 2 P			
P208	E40-0373-05	PIN CONNECTOR 3 P			
R 0 1 0	R92-1173-05	RES. FIXED			

#### **CURRENT DIFECTER UNIT (PD110-5D)**

	X81-1850-03				
REF.NO	PARTS NO	NAME & DESCRIPTION			
	J25-5135-1 <b>4</b>	PCB (UNMOUNTED)			
	212-1018-05	TUBE (PLASTIC)			
J011	E23-0555-05	G. TERMINAL			
J012	B23-0555-05	G. TERMINAL			
J013	E23-0555-05	G. TERMINAL			
P 2 0 5	E40-0273-05	PIN CONNECTOR 2 P			
P206	NO USE				
P 2 0 7	E40-0273-05	PIN CONNECTOR 2 P			
P 2 0 8	E40-0373-05	PIN CONNECTOR 3 P			
R 0 1 0	R92-1173-05	RES. FIXED			

#### **CURRENT DIFECTER UNIT (P110-3)**

	X81-1850-04			
REF.NO	PARTS NO	NAME & DESCRIPTION		
	J25-5135-14	PCB (UNMOUNTED)		
	212-1018-05	TUBE (PLASTIC)		
J011	E23-0555-05	G. TERMINAL		
J012	E23-0555-05	G. TERMINAL		
J013	E23-0555-05	G. TERMINAL		
P207	E40-0273-05	PIN CONNECTOR 2 P		
P 2 0 8	E40-0373-05	PIN CONNECTOR 3 P		
R 0 1 0	R92-1174-05	RES. FIXED		

X81-1980-09

#### **CONSTANT I UNIT (PD110-5/5D)**

REF. NO	PARTS NO	NAME & DESCRIPTION
	J25-5135-14	PCB (UNMOUNTED)
	212-1018-05	TUBE (PLASTIC)
	212-1010-03	IODE (LPW2IIC)
J011	E23-0555-05	G. TERMINAL
J012	E23-0555-05	G. TERMINAL
J013	E23-0555-05	G. TERMINAL
P 2 0 5	E40-0273-05	PIN CONNECTOR 2 P
P206	NO USE	
P207	E40-0273-05	PIN CONNECTOR 2 P
P208	E40-0373-05	PIN CONNECTOR 3 P
R O 1 O	R92-1174-05	RES. FIXED
R 0 1 0	R92-1174-05	RES. FIXED

#### CONSTANT I UNIT (PD110-3/3D)

X81-1980-11				
	PARTS NO E33-4110-00 J25-5157-03 212-1018-05	PCB (UNMOUNTED) TUBE (PLASTIC)		
C014	CF92V1H473J	CAP. POLYESTER	0.047 5%	50
D015 D016	RD24F(B2) RD24F(B2)	DIODE		
D 0 3 3	CRDE-501	DIODE		
P013	E40-0673-05	PIN CONNECTOR	6 P	
P308 P309 P310 P311	E 40 - 0773 - 05 E 40 - 0873 - 05 E 40 - 0473 - 05 E 40 - 0473 - 05 E 40 - 0273 - 05	PIN CONNECTOR PIN CONNECTOR PIN CONNECTOR PIN CONNECTOR PIN CONNECTOR	7 P 8 P 4 P 4 P 2 P	
P312	E40-0373-05	PIN CONNECTOR	3 P	
	2SC3182(R) 2SA1265(R) 2SC3066(F,G)	TR. SI, NPN TR. SI, PNP TR. SI, NPN		
R 0 0 9	RD14DB2H101J	RES. CARBON	100 5%	1/2
R 0 1 5 R 0 1 6 R 0 1 7	RD14DB3F912J RD14DB3F912J NO USE	RES. CARBON RES. CARBON	9.1K 5% 9.1K 5%	3 W 3 W
R 0 1 8 R 0 1 9 R 0 2 0	RD14BB2C432J RD14DB2H330J NO USE	RES. CARBON	4.3K 5% 33 5%	1/6
R O 2 1 R O 2 2	R92-0150-05 RD14BB2C102J	JUMPING RES RES. CARBON	ZERO OHM 1K 5%	1/6

#### **RECTIFIER UNIT (PD110-5/5D)**

#### X81-2110-00 NAME & DESCRIPTION REF. NO PARTS NO WIRE ASSY PCB (UNMOUNTED) TUBE (PLASTIC) CAP. POLYESTER E33-4110-00 J25-5157-03 212-1018-05 CO14 CF92V1H473J 0.047 5% 50 V DIODE RD24F(B2) RD24F(B2) DIODE D033 CRDE-501 DIODE P013 E40-0673-05 PIN CONNECTOR 6 P PIN CONNECTOR E40-0873-05 E40-0473-05 PIN CONNECTOR PIN CONNECTOR P308 P309 4 P PIN CONNECTOR E40-0273-05 E40-0373-05 P311 PIN CONNECTOR PIN CONNECTOR P312 TR. SI, NPN TR. SI, PNP TR. SI, NPN Q007 2SC3182(R) 2SA1265(R) 0008 Q009 2SC3066(F,G) 1/2W 100 5% R009 RD14DB2H101J RES. CARBON R015 RD14DB3F912J RES. CARBON 9.1K 9.1K R016 R017 RD14DB3F912J NO USE RES. CARBON RD14BB2C432J RES. CARBON 4.3K 5% 5% 1/2W R019 RD14DB2H330J RES. CARBON 33 NO USE R92-0150-05 R020 R021 JUMPING RES. ZERO OHM 1/6W RD14BB2C102J RES. CARBON

RECT	IFIER UNIT (PD	<del></del>	
	X8	1-2110-01	W
COO1 COO2 COO3 COO4 COO5	PARTS NO E33-4117-00 J25-5164-03 212-1018-05 C45SL1H331J CC45SL1H331J CC45SL1H331J CC45SL1H331J CC45SL1H331J	NAME & DESCRIPTION WIRE ASSY PCB (UNMOUNTED) TUBE (PLASTIC) CAP. CERAMIC 330P	5% 50 V 5% 50 V 5% 50 V 5% 50 V 5% 50 V
C008 C009 C010	CF93AN2J103K CF93AN2J103K NO USE	CAP. POLYESTER 0.01 CAP. POLYESTER 0.01	10% 630V 10% 630V
C011 C012 C013 C014 C015 C016 C017	CEO 4W1E220M CEO 4W1E220M CEO 4W1E220M CEO 4W1E220M CK45F1H103Z CK45F1H103Z CK45F1H103Z CK45F1H103Z	CAP. BLECTRO 22 CAP. BLECTRO 22 CAP. BLECTRO 22 CAP. BLECTRO 22 CAP. CERAMIC 0.01	20% 25V 20% 25V 20% 25V 20% 25V 50V 50V 50V
D 0 0 5 D 0 0 6	CTM-36R CTM-36R	DIODE	
D 0 1 6	DSA1A4	DIODE	
D 0 2 1 D 0 2 2 D 0 2 3 D 0 2 4 D 0 2 5 D 0 2 6 D 0 2 7 D 0 2 8 D 0 2 9 D 0 3 0	155132 155132 155132 155132 155132	DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE	
J001 J002 J003 J004 J005 J006 J007 J008 J009	E23-0555-05 E23-0555-05 E23-0555-05 E23-0555-05 E23-0555-05 E23-0555-05 E23-0555-05 E23-0555-05 E23-0555-05 E23-0555-05	G. TERMINAL	
J014	E23-0556-05	G. TERMINAL	
L001	L39-0525-05	COIL	
P021 P022 P023	E40-0373-05 E40-0273-05 E40-0673-05	PIN CONNECTOR 3 P PIN CONNECTOR 2 P PIN CONNECTOR 6 P	
P206	E40-0273-05	PIN CONNECTOR 2 P	
9001 9002 9003 9004 9005	25K387 25K387 25K387 25K387 25K387	FET, N-CHANNEL FET, N-CHANNEL FET, N-CHANNEL FET, N-CHANNEL FET, N-CHANNEL	
R 0 0 1 R 0 0 2 R 0 0 3 R 0 0 4 R 0 0 5 R 0 0 6 R 0 0 7	R92-1185-05 R92-1185-05 R92-1185-05 R92-1185-05 R92-1185-05 R92-1185-05 RD14B82C302J RD14D82H101J	RES. FIXED RES. FIXED RES. FIXED RES. FIXED RES. FIXED RES. CARBON 3K RES. CARBON 100	5% 1/6W 5% 1/2W
R013 R014	RD14DB3A101J RD14DB3A101J	RES. CARBON 100 RES. CARBON 100	5% 1W 5% 1W
R019 R020 R021 R022 R023 R024 R025	R92-0150-05 R92-0150-05 RD14BB2C102J RD14BB2C102J RD14BB2C102J RD14BB2C102J RD14BB2C102J RD14BB2C102J		0HM 0HM 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W 5% 1/6W

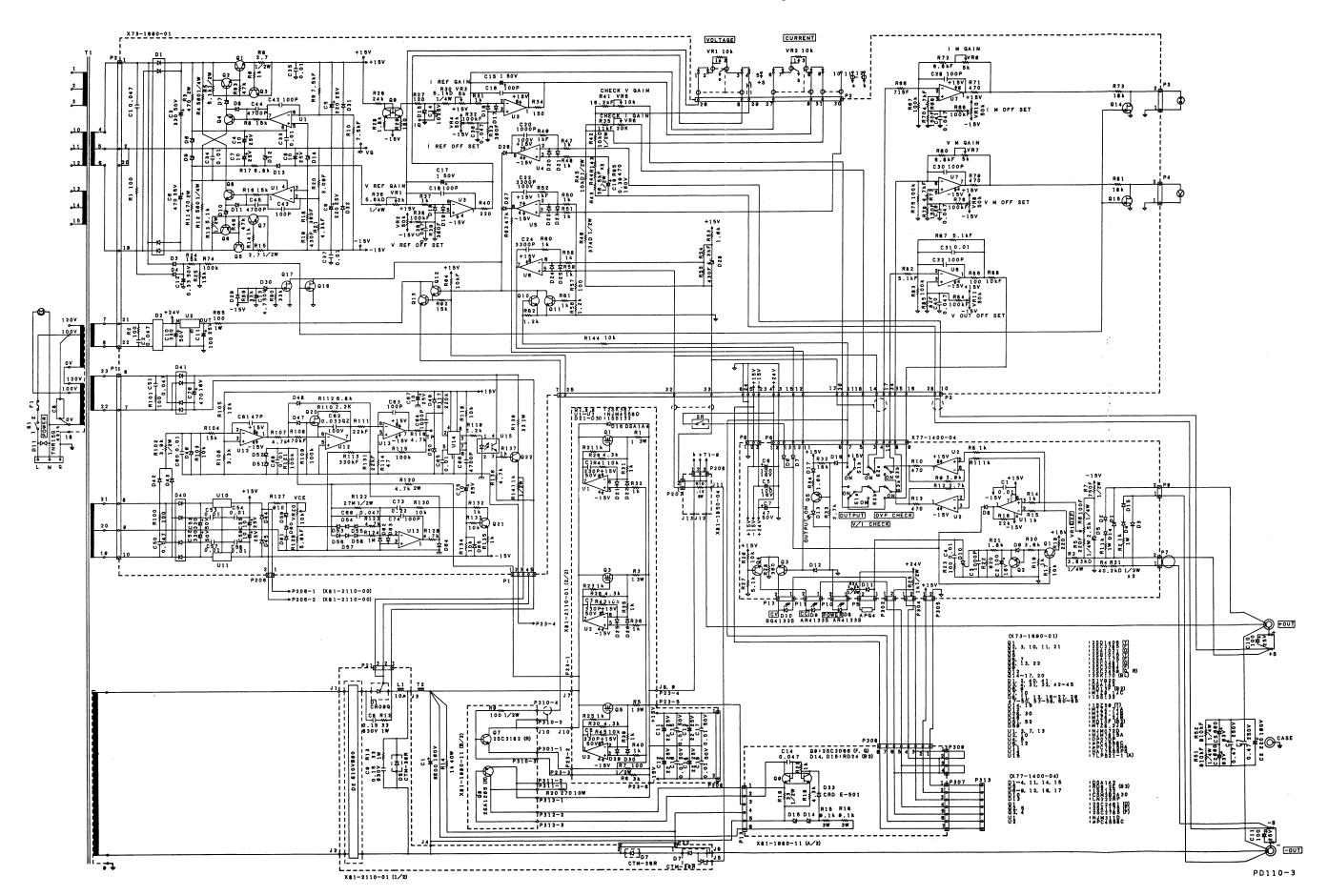
RBF.NO	PARTS NO	NAME & DESC	RIPTION	
R 0 2 6	RD14BB2C432J	RES. CARBON	4.3K	5% 1/6W
R 0 2 7	RD14BB2C432J	RES. CARBON	4.3K	5% 1/6W
R 0 2 8	RD14BB2C432J	RES. CARBON	4.3K	5% 1/6W
R 0 2 9	RD14BB2C432J	RES. CARBON	4.3K	5% 1/6W
R 0 3 0	RD14BB2C432J	RES. CARBON	4.3K	5% 1/6W
R 0 3 1	RD14BB2C102J	RES. CARBON	1 K	5% 1/6W
R032	RD14BB2C102J	RES. CARBON	1 K	
R033	RD14BB2C102J	RES. CARBON	1 K	
R 0 3 4	RD14BB2C102J	RES. CARBON	1 K	5% 1/6W
R035	RD14BB2C102J	RES. CARBON		5% 1/6W
R036	RD14BB2C102J	RES. CARBON		5% 1/6W
R037	RD14BB2C102J	RES. CARBON		5% 1/6W
R038	RD14BB2C102J	RES. CARBON	1 K	
R039	RD14BB2C102J	RES. CARBON		5% 1/6W
R 0 4 0	RD14BB2C102J	RES. CARBON		5% 1/6W
R 0 4 1	RD14BB2C103J	RES. CARBON		5% 1/6W
R 0 4 2	RD14BB2C103J	RES. CARBON	10 K	5% 1/6W
R 0 4 3	RD14BB2C103J	RES. CARBON	10 K	5% 1/6W
R 0 4 4	RD14BB2C103J	RES. CARBON	10 K	5% 1/6W
R 0 4 5	RD14BB2C103J	RES. CARBON	10 K	5% 1/6W
U O O 1	NJM4558D	IC, OP AMP		
U O O 2	NJM4558D	IC, OP AMP		
0003	NJM4558D	IC, OP AMP		

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CURRENT	DIFECTEN	CIVIL	(アレール	וטפינ

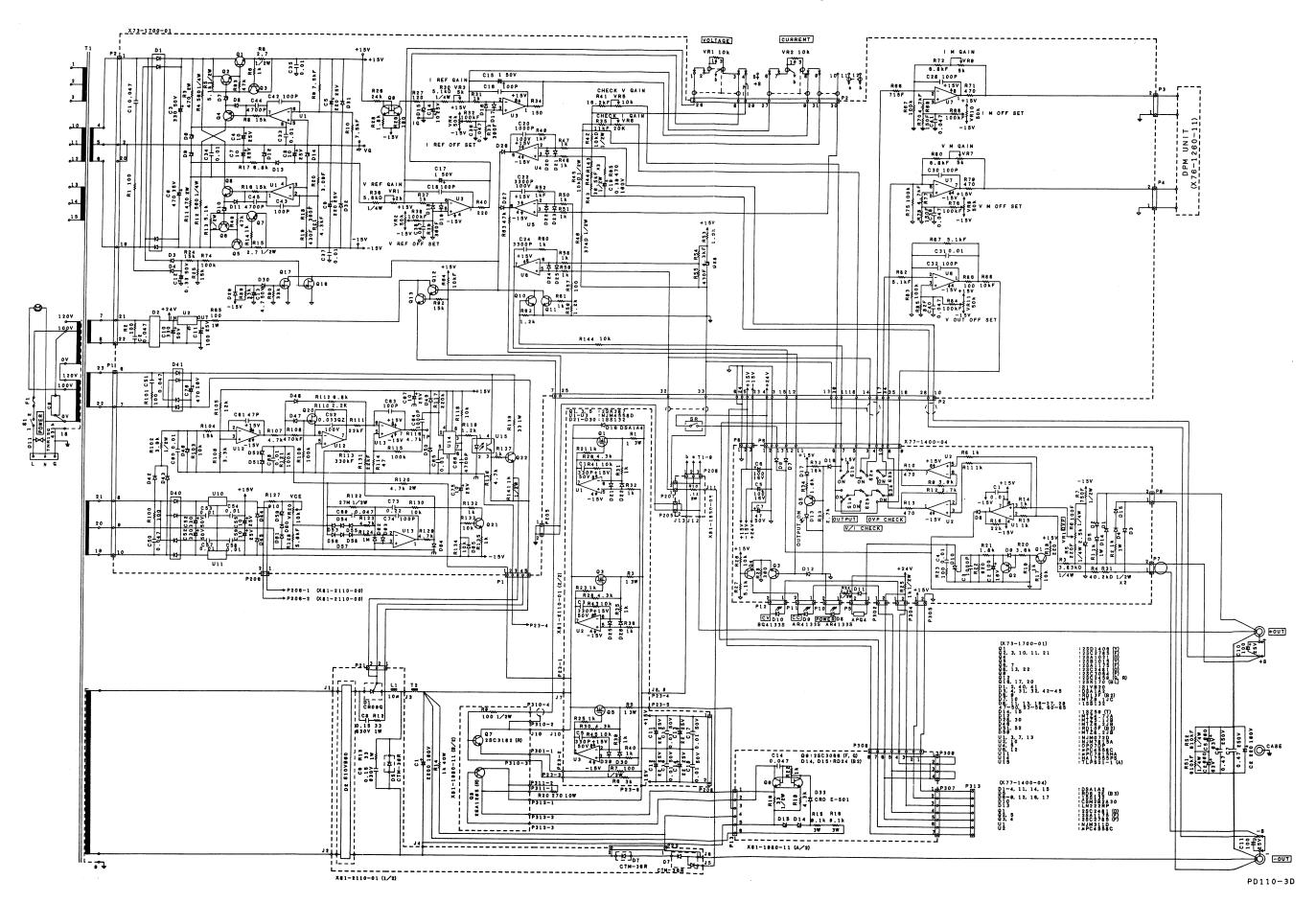
	X	31-1850-05	
BF.NO	PARTS NO E33-4117-00 J25-5164-03 212-1018-05	NAME & DESCR WIRE ASSY PCB (UNMOUNTED) TUBE (PLASTIC)	IPTION
C001 C002	CC45SL1H331J NO USE	CAP. CERAMIC	330P 5% 50V
C003	CC45SL1H331J	CAP. CERAMIC	330P 5% 50V
C004 C005	NO USE CC45SL1H331J	CAP. CERAMIC	330P 5% 50V
C008	CF93AN2J103K	CAP. POLYESTER	0.01 10% 630
C009 C010	CF93AN2J103K NO USE	CAP. POLYESTER	0.01 10% 630
C011 C012	CE04W1E220M CE04W1E220M	CAP. ELECTRO	22 20% 25V 22 20% 25V
C013 C014	CE04W1E220M CE04W1E220M	CAP. BLECTRO CAP. BLECTRO	22 20% 25V 22 20% 25V
C015 C016	CK45F1H103Z CK45F1H103Z	CAP. CERAMIC CAP. CERAMIC	0.01 50V 0.01 50V
C017 C018	CK45F1H103Z CK45F1H103Z	CAP. CERAMIC CAP. CERAMIC	0.01 50V 0.01 50V
D 0 0 5 D 0 0 6	CTM-36R CTM-36R	DIODE	
D016	DSA1A4	DIODE	
D 0 2 1 D 0 2 2	1 \$\$ 1 3 2 1 \$\$ 1 3 2	DIODE	
D 0 2 5 D 0 2 6	155132 155132	DIODE	
D 0 2 9 D 0 3 0	1 S S 1 3 2 1 S S 1 3 2	DIODE	
J001 J002 J003	E 23 - 0 5 5 5 - 0 5 E 23 - 0 5 5 5 - 0 5 E 23 - 0 5 5 5 - 0 5	G. TERMINAL G. TERMINAL G. TERMINAL	
J004 J005	E23-0555-05 E23-0555-05	G. TERMINAL G. TERMINAL	
J006	E23-0555-05	G. TERMINAL	
J007 J008	E23-0555-05 E23-0555-05	G. TERMINAL G. TERMINAL	
J009 J014	E23-0556-05 E23-0556-05	G. TERMINAL G. TERMINAL	
L001	L39-0525-05	COIL	
P 0 2 1	E40-0373-05	PIN CONNECTOR	3 P
P 0 2 2 P 0 2 3	E40-0273-05 E40-0673-05	PIN CONNECTOR PIN CONNECTOR	2 P 6 P
P 2 0 6	E40-0273-05	PIN CONNECTOR	2 P
9001	2 SK 3 8 7	FET, N-CHANNEL	
0002 0003	NO USE 28K387	FET, N-CHANNEL	
Q004 Q005	NO USE 25K387	FET, N-CHANNEL	-
R O O 1	R92-1185-05	RES. FIXED	
R O O 2 R O O 3	NO USE R92-1185-05	RES. FIXED	
R O O 4 R O O 5	NO USE R92-1185-05	RES. FIXED	
R O O 6 R O O 7	RD14BB2C302J RD14DB2H101J	RES. CARBON RES. CARBON	3K 5% 1/6W 100 5% 1/2W
R 0 1 3 R 0 1 4	RD14DB3A101J RD14DB3A101J	RES. CARBON RES. CARBON	100 5% 1W 100 5% 1W
R O 1 9 R O 2 O	R92-0150-05	JUMPING RES.	ZERO OHM
R021 R021 R022	R92-0150-05 RD14BB2C102J	JUMPING RES. RES. CARBON	ZERO OHM 1K 5% 1/6W
R 0 2 2 R 0 2 3 R 0 2 4	NO USE RD14BB2C102J	RES. CARBON	1K 5% 1/6W
R025	NO USE RD14BB2C102J	RES. CARBON	1K 5% 1/6W
R026 R027	RD14BB2C432J NO USE	RES. CARBON	4.3K 5% 1/6W

REF.NO	PARTS NO	NAME & DESC	RIPTION	
R028	RD14BB2C432J	RES. CARBON		1/6W
R O 2 9 R O 3 O	NO USE RD14BB2C432J	RES. CARBON	4.3K 5	1/6W
R031	RD14BB2C102J	RES. CARBON		% 1/6W
R 0 3 2	RD14BB2C102J	RES. CARBON	1 K 5	1/6W
	RD14BB2C102J		1 K 5	
R 0 3 6	RD14BB2C102J	RES. CARBON	1 K 5	1/6W
R039	RD14BB2C102J			% 1/6W
R 0 4 0	RD14BB2C102J			1/6W 1/6W
R 0 4 1 R 0 4 2	RD14BB2C103J NO USE	RES. CARBON	10K 5	1/UW
	RD14BB2C103J	RES. CARBON	10K 5	1/6W
R 0 4 4 R 0 4 5	NO USE RD14BB2C103J	RES. CARBON	10K 5	1/6W
U 0 0 1	NJM4558D	IC, OP AMP		
U 0 0 2	NJM4558D	IC, OP AMP		
U 0 0 3	NJM4558D	IC, OP AMP		

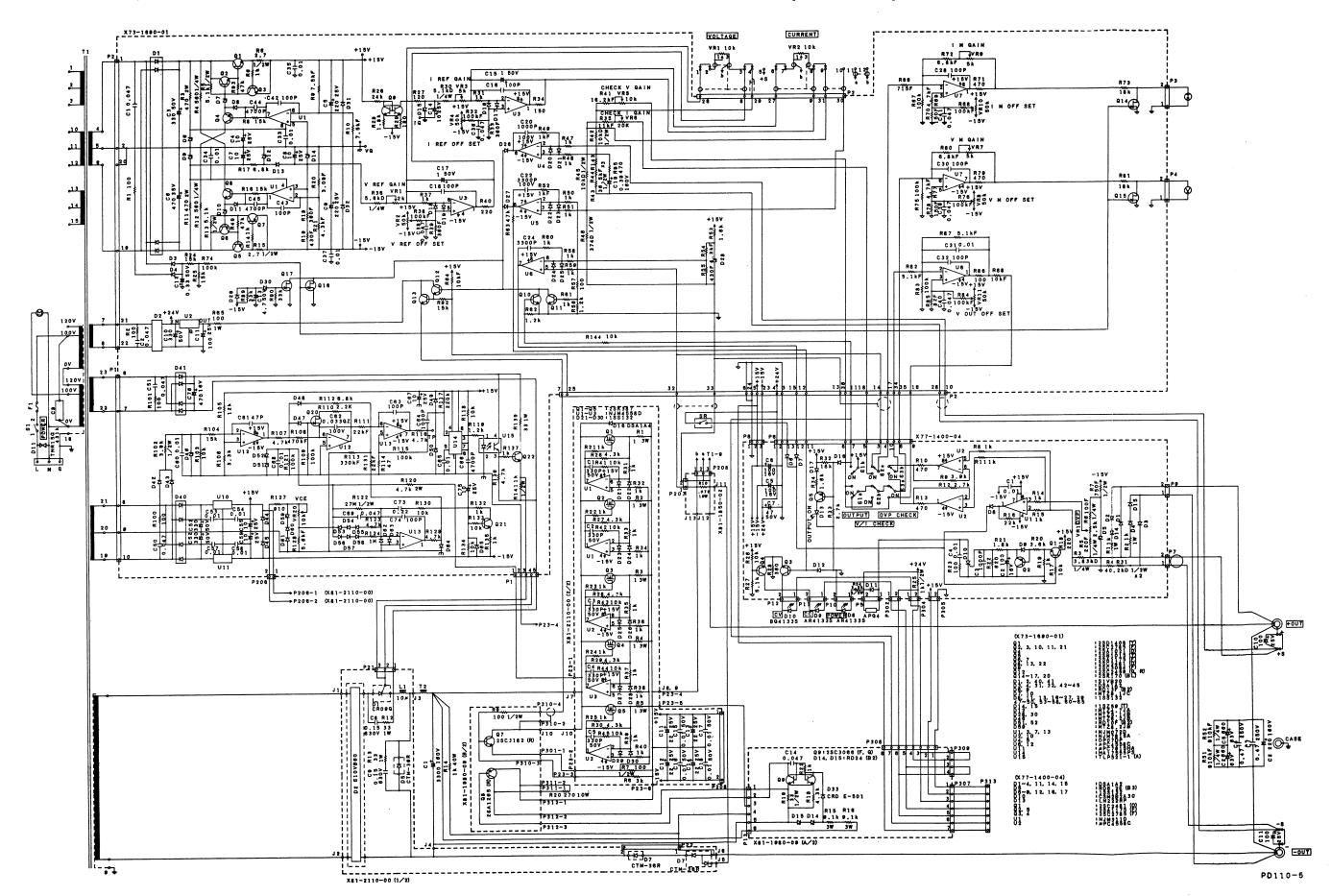
## **SCHEMATIC DIAGRAM (PD110-3)**



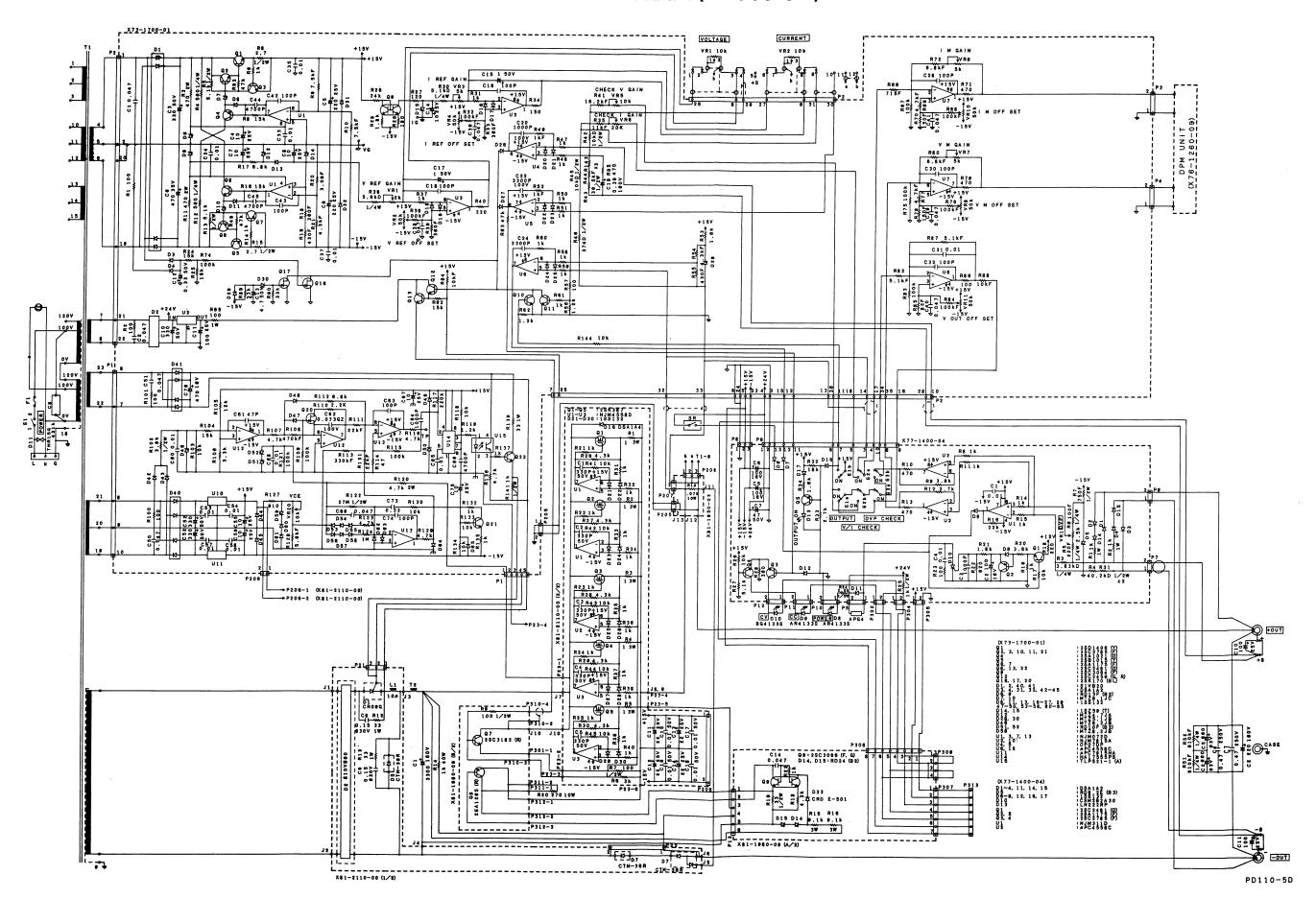
## **SCHEMATIC DIAGRAM (PD110-3D)**



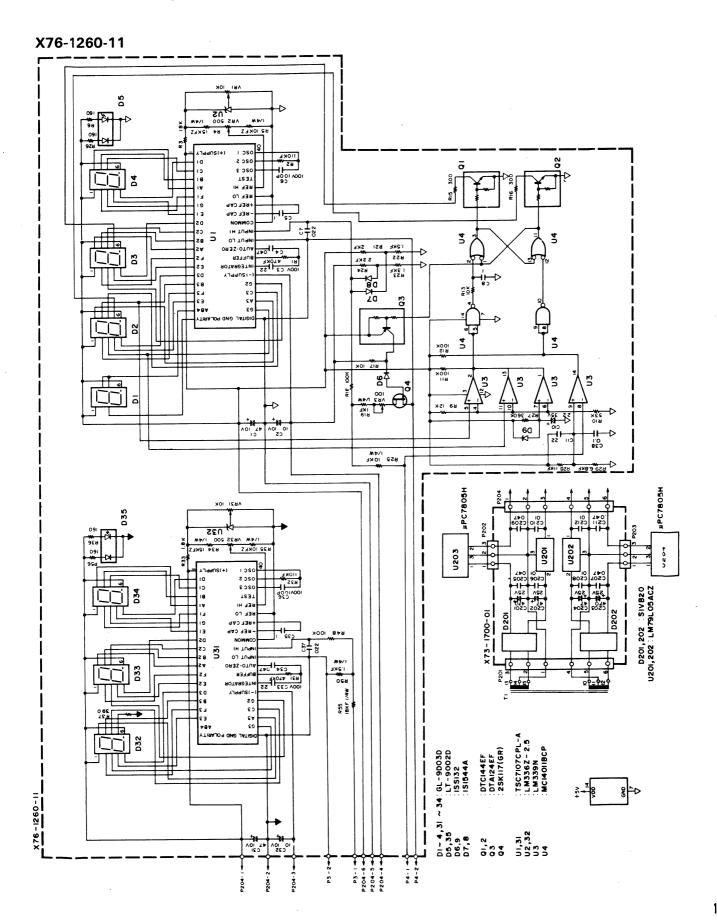
## **SCHEMATIC DIAGRAM (PD110-5)**



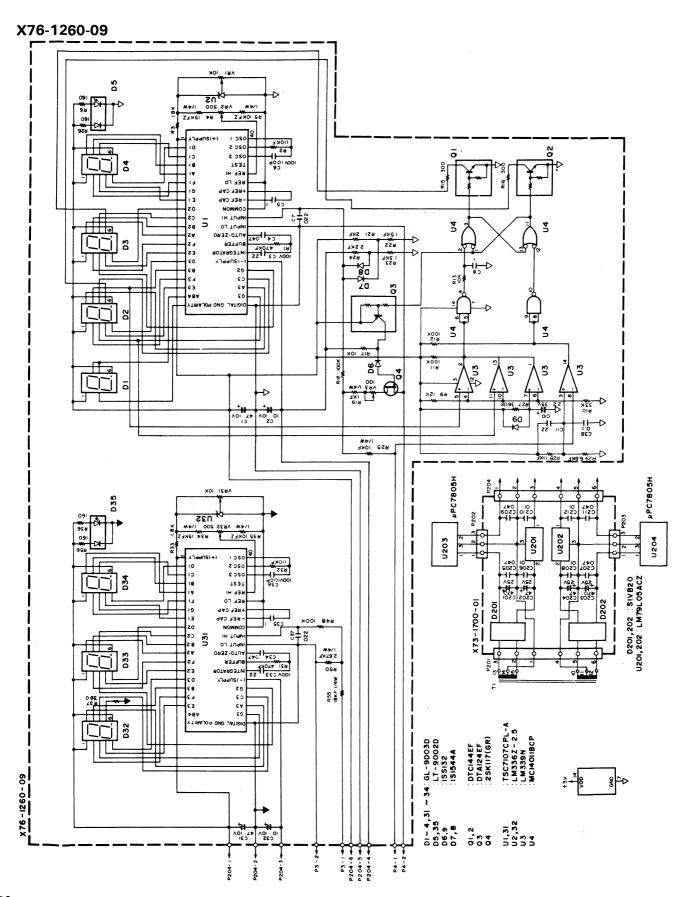
# **SCHEMATIC DIAGRAM (PD110-5D)**



# **SCHEMATIC DIAGRAM (PD110-3D)**

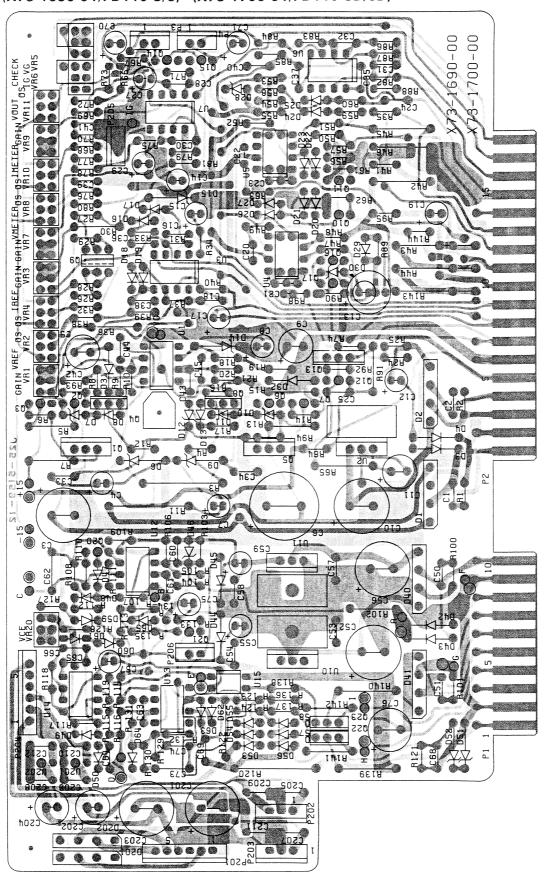


## **SCHEMATIC DIAGRAM (PD110-5D)**



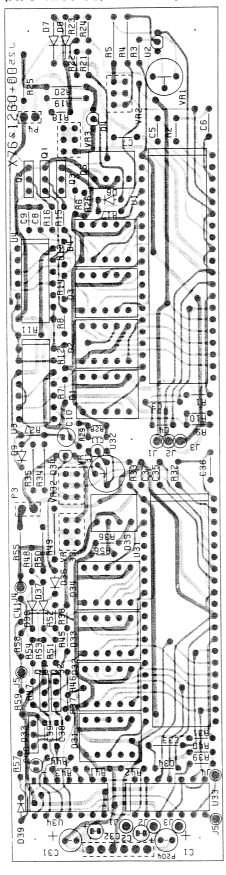
P. C. BOARD

AMPLIFIER UNIT (X73-1690-01/PD110-3/5) (X73-1700-01/PD110-3D/5D)

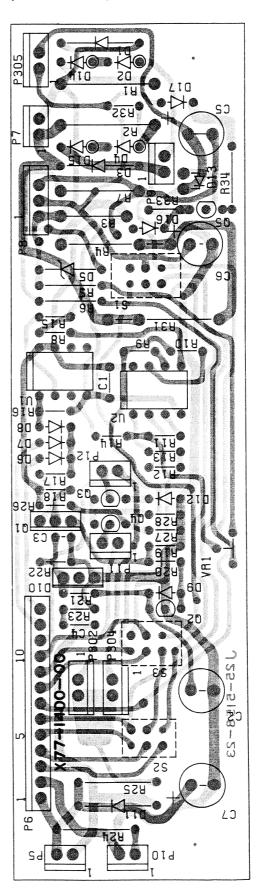


## P. C. BOARD

DIGITAL PANEL METER UNIT (X76-1260-11/PD110-3D) (X76-1260-09/PD110-5D)

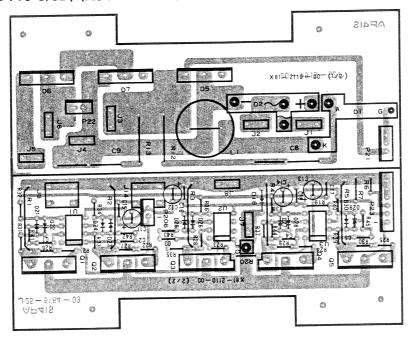


**AMPLIFIER UNIT** (X77-1400-04)



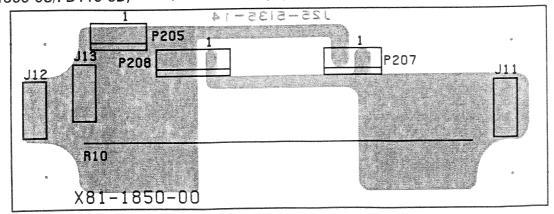
## P. C. BOARD

# RECTIFIER UNIT (X81-2110-00/PD110-5/5D) (X81-2110-01/PD110-3/3D)

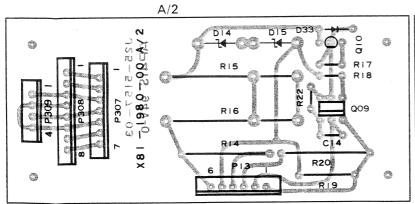


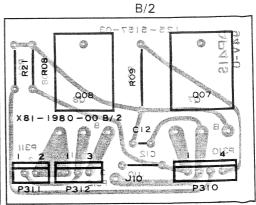
CURRENT DIFECTER UNIT (X81-1850-02/PD110-5) (X81-1850-03/PD110-5D)

(X81-1850-04) (DP110-3) (X81-1850-05) (PD110-3D)



# CONSTANT I UNIT (X81-1980-09/PD110) (X81-1980-11/PD110-3/3D)





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